

Home Computing WEEKLY

An Argus Specialist Publication

2 week Christmas Special!

No. 42
Dec 20, 1983
- Jan 2, 1984

38p



FREE GIFTS

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Type in and have fun with ten seasonal games for:
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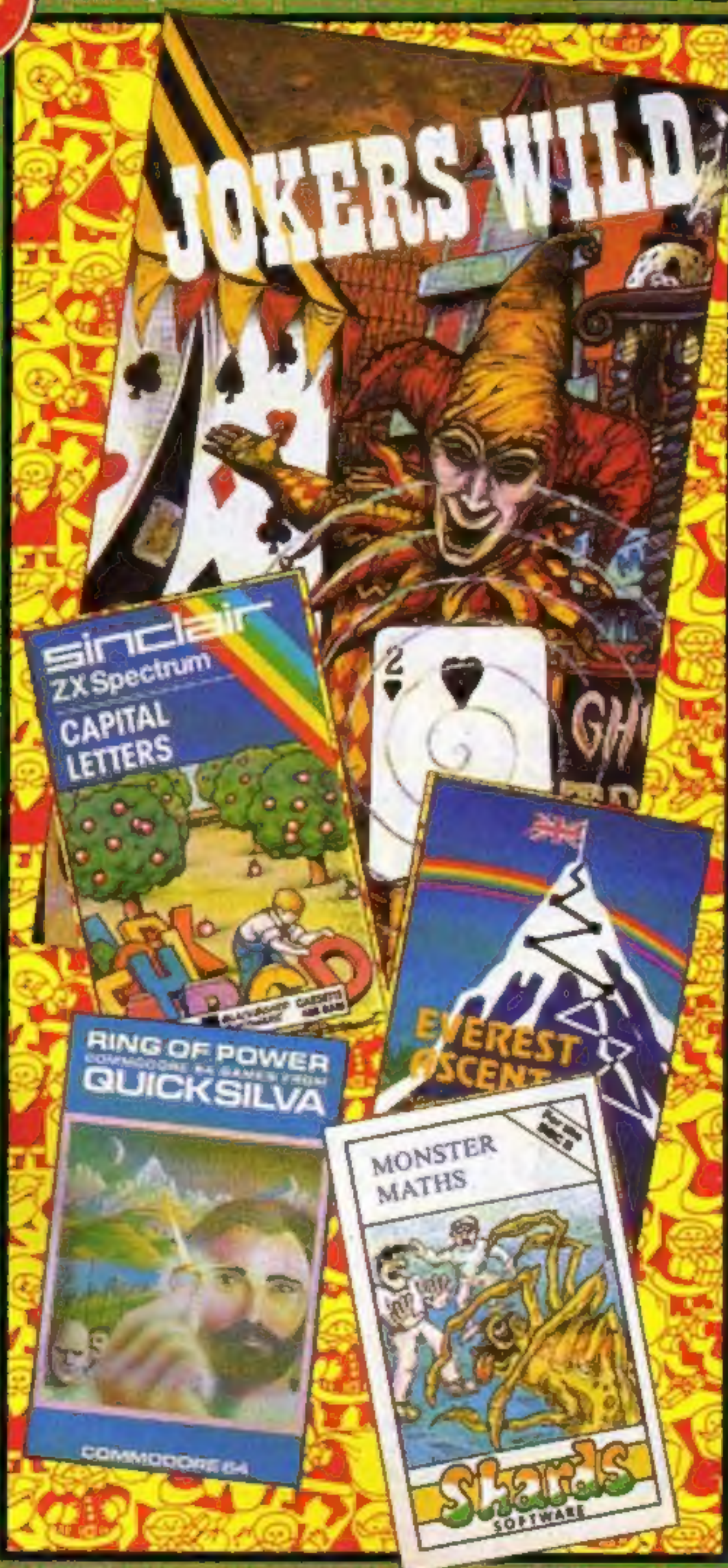
Our ghost story will give you **Spritemares...**

Software reviews for:
Dragon, Texas, Spectrum, Commodore 64

new Spectrum Adventure



CDS Micro Systems
10, Westfield Close, Tickhill,
Doncaster DN11 9LA



CBS plans its Adam strategy

CBS is talking to micro users both in the home and in business, to decide on exactly how its new Colecovision Adam computer should be marketed in the UK.

Philip Gibbs, marketing manager, explained: "We feel the Adam will be of interest to two markets — the serious home user and the small business employing about 10 people.

"There's a lot of evidence that home users are starting to upgrade to bigger, more powerful machines. And whereas at the moment small businesses thinking about buying a computer are faced with paying upwards of £300 for the micro alone, with the Adam, they'll get a complete system for around £700 — in-

Continued on page 5

More moves cause upsets in Liverpool

In the latest round of musical chairs in Liverpool, club owner Tommy Barton has recruited the production manager of add-on makers Fuller Micro Systems.

Until now the recent comings and goings had been mainly confined to big software houses like Bug-Byte and Imagine and their smaller rivals.

Software Projects, Mr Barton's first venture into home computers, has now been joined

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new Spectrum Arcade action



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87 Howard's Lane,
London SW15 6NU

Mastered the basics of BASIC and ready to move on? Structured Programs in BASIC is a book of programming techniques, algorithms, program modules, programs and ideas for those who want to make more better use of their micro. Written by Peter Bishop, author of four other computer books, it costs £4.95, and should be in the shops just after Christmas.

Thomas Nelson, Nelson House, Mayfield Road, Walton on Thames, Surrey KT12 5PL

Martech has brought out two new games, Quest of Merravid, an adventure game for the Commodore 64 or VIC (£7.95) and Blastermind for the Spectrum (£5.50), a game of logic in which you have to guess the hidden code. Martech say they "accept no responsibility for damage caused by anger, aggravation or temper loss" as a result of playing Blastermind, and plan to make it even more annoying soon by adding synthesised comments using the Currah Microspeech synthesiser.

Martech, 9 Dillingburgh Road, Eastbourne, Sussex BN20 8LY

Dual-game tapes — one side for the VIC-20 and the other for the Commodore 64 — have been brought out by Audiogenic. They are Cataclysm, a space shoot-'em-up game at £5.95, and a monsters and ladders game called Bonzo (£7.95). Also new from Audiogenic: Shifty, a maze game for the 8K VIC at £5.95, and four for the Commodore 64. Serpentine, Seafox and Choplifter are £29.95 on cartridge and David's Midnight Magic is £29.95 on disc.

Audiogenic, P.O. Box 88, Reading, Berks RG1 2SN

The first four titles in the Clear and Simple Home Computer Series of paperbacks are out this month. They are Introduction to Computing, by Peter Lafferty; First steps in BASIC; Games, Graphics and Sounds; and Learning with your Home Computer, all by Susan Curran and Ray Curnow. The four books cost £4.95 each.

WHS Distributors, St Johns House, East Street, Leicester LE1 6NE

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A Happy Christmas to you



It's our first Christmas at Home Computing Weekly and we have put together a special seasonal issue.

We hope you have fun with the games inside.

And we would like to wish all of you a very happy Christmas as well as an enjoyable and successful New Year.

We are taking our Christmas break too. Home Computing Weekly will be back in the shops on Tuesday January 10.

As well as software reviews — more than any other magazine — the latest news, programming hints and listings to type in, there will be some great extras throughout 1984.

Our thanks go to all those who have helped to make HCW such a success in just 42 weeks.

Paul A. Liptrot

P.S. Please remember that we are now in new offices: No. 1 Golden Square, London W1R 3AB. Our new phone number is 01-437 0626.

CALPAC LEARNING SERIES

Colour graphics and sound are used extensively to make learning more enjoyable.

5. MULTIPLICATION TABLES. This program with correction sequences enables you to test individual multiplication tables, or all tables up to a maximum that you choose. Carriages are added to a train as the score increases - see the train glide through the countryside when the test is finished.

6. THE ROMANS. Answer questions on the Romans to win a horse, chariot, viaduct and temple. Answer enough correctly and the horse will gallop away with its chariot.

7. SPELLING TESTER. The words in the test are initially displayed on the screen. Then short sentences are used as prompts for the words, which must be typed correctly to add stages to a space-ship.

Replace the words and sentences in the program with weekly spelling lists, save them on cassette, and you will rapidly create a whole library of programs.

8. HOMOPHONES. Sale or sail, bare or bear? Choose the correct word to complete the sentence. Extra motivation is provided by a coloured pot-plant, which grows with each correct response. The plant flowers in an unusually unusual fashion at the end of the program.

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Published by Calpac Computer Software, 108 Hermitage Woods Crescent, St Johns, Woking, Surrey GU21 1UF

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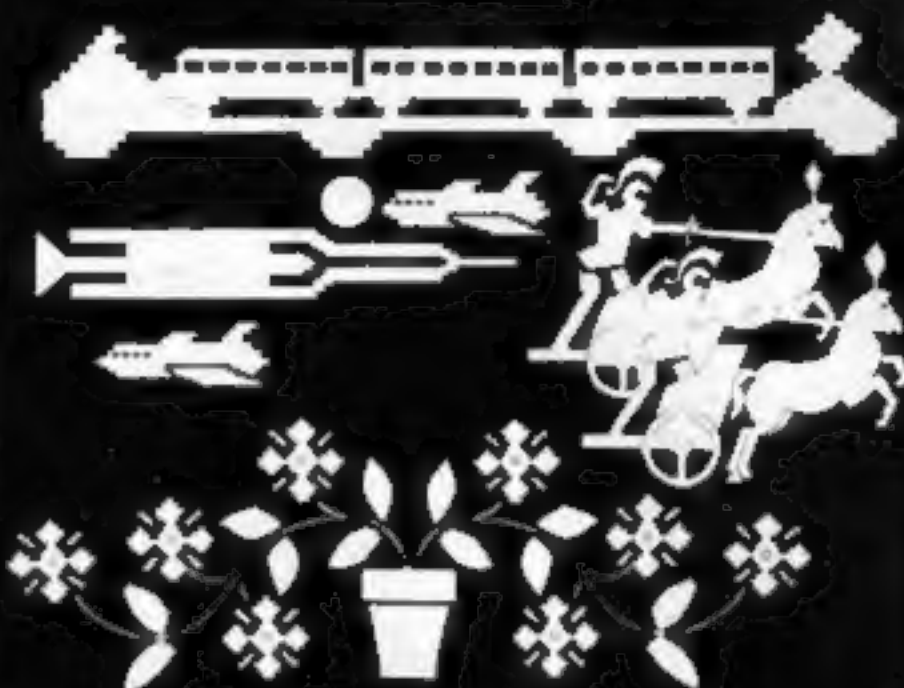
CALPAC LEARNING SERIES



VOL 2

CALPAC LEARNING SERIES

PROGRAMS 5-8



5. MULTIPLICATION TABLES
6. THE ROMANS
7. SPELLING TESTER
8. HOMOPHONES

SPECTRUM 16K
FROM 7 YEARS 48K

CALPAC LEARNING SERIES

Colour graphics and sound are used extensively to make learning more enjoyable.

9. NOUNS, VERBS, ADJECTIVES AND ADVERBS. Sentences are displayed and you select the named parts of speech. Instant feedback and helpful comments ensure positive learning. Correct answers are rewarded by the creation of a coastal scene, which is animated at the end of the program.

10. VERB PRACTICE. You have to complete the sentence using the correct tenses of the verbs. The program concentrates on those irregular verbs that often cause difficulty. An underwater landscape is created as questions are correctly answered.

11. THE STRUCTURE OF THE FLOWER. This program explains how the parts of the flower are involved in the formation of seeds. This is a three part program which makes full use of high resolution colour graphics.

12. LONG DIVISION. This detailed program takes the learner through long division sums in easy stages. Correction sequences are automatically provided when they are needed. Sums with remainders can be chosen if required.

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CALPAC LEARNING SERIES



VOL 3

FROM

9

YEARS

CALPAC LEARNING SERIES

PROGRAMS 9-12



9. NOUNS, VERBS, ADJECTIVES AND ADVERBS
10. VERB PRACTICE
11. THE STRUCTURE OF THE FLOWER
12. LONG DIVISION

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| CALPAC CHEMISTRY SERIES VOL 1 | 48K Spectrum | £7.50 |
| CALPAC CHEMISTRY SERIES VOL 1 | 16K ZX81 | £6.95 |
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- *Spelling checkers
- *"Help" call up routine
- *Easy insertion of subject material of your own choice into the programs

Adam Strategy

From front page

cluding VAT.

"What we're trying to do is find out exactly what people are currently using their micro-computers for, and how they would like to use them. And then we hope to be able to pinpoint features of the Adam that will do those things.

"It's being promoted in the States as 'the first family computer'. But 'family' in this country suggests 'unprofessional'. We don't want to frighten off the business user, so we're thinking of calling it 'the complete computer system.'"

For the price tag of £700 or so, Adam purchasers will get a keyboard unit, daisywheel printer, two games controllers/keypads and a mass storage/processor unit.

The computer has a Z80A processor and 80K of RAM, upgradeable to 144K. There's the CP/M operating system and a word processor built into ROM, but BASIC has to be loaded in from cassette.

Mass storage facilities will consist of a cartridge slot, which will take Coleco games cartridges, and a high-speed digital tape recorder which will take only special Coleco tape cassettes. The system cannot be split up.

As an alternative to buying the system from scratch, the 30,000 or so UK owners of Coleco games

tape, which will also have spare storage capacity, a blank tape, and a game, called Buck Rogers — The Planet of Zoom.

There are currently 17 games cartridges already available for the Coleco games machine, and Coleco is working on a selection of tape-based software, including a Smartfiler system which allows you, among other things, to build up mailing lists.

There will also be a number of "supergames" like the Buck Rogers tape, which will have lots of different screens which load in sections from the tape unit. Coleco is promising to unveil "a whole range" of these tapes at the Las Vegas computer show in January.

Also promised for the Las Vegas show is a disc drive interface. Because Adam has the CP/M operating system, by buying the disc interface and a disc drive, users would be able to run much of the disc-based software already written for CP/M-based machines.

For the UK launch, CBS will select software from Coleco's range, adapting programs for the UK market where necessary. But it is also talking to two independent UK software companies about developing a series of programs especially for the UK, taking into account the results of its discussions with UK users.

CBS hopes that the Adam will be on sale in a range of most of the High Street chains, but so far it has only spoken to two companies. According to Philip Gibbs, "nobody's yet made any



Colecovision's new Adam — a complete system for an all-in-one price

machines can buy an expansion unit to turn their games players into a computer — but the interface may well set them back £400-£500.

CBS does not as yet know how much the special tape cassettes will cost, but the disadvantages of using non-standard tapes will to some extent be offset by faster and more reliable loading and saving. Each tape will also be able to hold a great deal of data — the equivalent of up to 250 pages of double-spaced typed text.

The Adam will come with three cassettes — the Smart BASIC

commitment and we haven't asked them to."

Before either the expansion unit or the complete Adam can go on sale here, a transformer has to be developed to allow them to work with UK TV sets, and the Adam itself will have to have a new PCB.

But CBS is pretty confident that Adam will be in the shops in April — and the expansion unit will probably arrive even sooner than that.

CBS, Headley Road East, Woodley, Berks

Liverpool

From front page

by Hardware Projects.

Its first product — now at the prototype stage — is to be a joystick interface-amplifier for the Spectrum. It will have a volume control and will be compatible with Kempston joysticks.

Managing director is Keith Archer, from Fuller, who said: "I'm aiming for a range of products and I don't intend to stick just with the Spectrum."

Among his ideas: a programmable joysticks interface plus ROM cartridges for the Commodore 64, VIC-20 and Spectrum. All would be designed by a team for which he was advertising.

Mr Archer's former boss, Fuller managing director Roy Backhouse, said: "I would not like to throw cold water on it, but if any attempt is made to hype our ideas there will be writs flying about. We don't want to see our lead going down the drain.

"Obviously it's a good coup for Tommy Barton — Keith knows how Fuller works and the contacts. We have re-structured the company and we can live without him. It was no great loss."

Liverpool's home computer history starts in 1977 when Bruce Everiss, now an Imagine director, started a store called Microdigital. Mark Butler, his sales manager, left to join Bug-Byte at about the same time as his friend and self-taught programmer Dave Lawson. They later left to form Imagine.

Meanwhile Mr Everiss ran into cash flow problems and sold Microdigital to Laskys in a deal which obliged him to stay with the new owners for a time, during which more stores were opened. One source believes some of the money from the Microdigital sale went into Imagine.

Back at Bug-Byte, in October this year, Alan Maton and his secretary wife Soo decided they wanted to go it alone and formed Acme Software, with Mr Everiss as chairman and advisor.

Enter Mr Barton, well known

on the Liverpool club and pub scene. His best-known club is Toad Hall in nearby Ainsdale.

He is the money man behind Software Projects. Its best-known game is Manic Miner, and now a sequel featuring the same character, Jet Set Willy.

Both were written by Matthew Smith, 17, who had licensed the chart-topper Manic Miner to Bug-Byte. Now he is transferred it to Software Projects — Bug-Byte still has stock to sell — of which he will be a director on his eighteenth birthday in February.

He will own slightly less than a third of the company with Mr Barton and Mr Maton holding the remainder.

In a few days a Commodore 64 version of Manic Miner should be ready. It is being converted from the Spectrum by RAF corporal Chris Lancaster, author of Imagine's Spectrum game, Bewitched. There will also soon be a 64 version of Jet Set Willy.

Mr Maton says his company aims to be friendly and helpful to both trade and customers. But some senior software people in Liverpool are unhappy about the latest changes.

Mr Maton's Acme Software is now part-owned by Roy Butler, father of Imagine's Mark Butler, who also has another software house, Voyager.

Bug-Byte has just launched The Birds and The Bees — with graphics by Matthew Smith — which introduces a new cartoon character called Boris the Bee.

Latest products from Imagine are Atari and Dragon versions of Leggit — the name changed from Jumpin' Jack by agreement with a company already using the name — and two more Spectrum tapes: Alchemist, a graphic adventure, and a war game called Stonkers.

And, according to Mr Everiss, Imagine is looking to games by cable in which the adventure could be played by several people and huge games sold on laser disc.

● Other companies which play a part in Liverpool's home computer saga are U Microcomputers, DAMS, Stack, Lyversoft and Home Computer Centre.



Customers queued outside Microage, in Edgware, waiting for opening time on Saturday last week — all waiting for Electrons, Acorn's £199 computer. The store had 98 and sold all of them on the day.

Well done — 101 times

Congratulations to the winners of our Spot the Difference competition in issue No. 35 — all 101 of you.

We asked you to find the differences between two drawings of a monk sitting at his home computer.

New Generation Software offered a first prize of a Spectrum Microdrive, plus Interface I. The 100 runners-up each receive two New Generation game tapes.

And the winner of the first prize is: Mr A. J. Markham, of Great Yarmouth.

His was the first correct entry drawn after the closing date.

He correctly identified the 10 differences between the two cartoons:

- Plane missing from window
- Flame omitted from candle
- Missing ear lobe
- Stone in wall deleted
- Character missing from screen
- One less key on keyboard
- No screws in hinge on desk
- Cable to screen deleted
- Larger ink spill
- Shading missing from sandal strap

The other 100 winners are:

A. Thorpe, of Birmingham; Nicholas Jackson, Halifax; Alan Aziz, South Shields; Lee Moorhouse, Deeside; Bryan Wills, Ruislip Manor; N. P. Carter, London NW1; Brian Christie, Belfast; Tomas Caulfield, Portmarnock; Garry Britton, Darlington; Miles Woodroffe, Coventry;

Carol J. Bland, Horsham; Peter Gent, London SE19; R. J. Bartley, Grays; K. K. Solanki, Moseley; J. R. Allison, Bury St Edmunds; S. Pearce, Maidenhead; John Barclay, Cumbernauld; H. Goh, Telford; N. Ingram, RAF Gatow; C. R. Jones, Mansfield;

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deen; David Phillips, Cumbria; Miss S. L. Atkins, Loughton;

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Mark Johnson, Coventry; C. Barnsley, Dudley; M. Leitch, Hawick; A. Coombs-Hoar, Folkestone; J. Rhodes, Shipley; E. Tunstall, Crewe; Andrew Tillman, Leeds; Philip Hastie, North Shields; D. Mackay, Isle of Lewis; S. E. Williams, Barnsley.

Your prizes will arrive from New Generation Software within 28 days.

Nice micros, shame about the drives

I used to say that Commodore's worst enemy over here was its own marketing people. Thank goodness (for them) that that is no longer the situation.

Both the VIC-20 and the 64 are now attaining sales figures that reflect the quality of these two fine machines. National price reductions have not exactly hurt sales either. Perhaps I shouldn't say this, but it is quite easy to buy a VIC-20 for about \$80 or a 64 for less than \$170 (both unexpanded of course).

Well, now that the marketing is going well, I can tell you that their product demand forecasting people are now Commodore's worst enemies along with their buyers. There is now a nationwide shortage of the Model 1541 floppy disc drives. It looks as though Commodore never anticipated the demand. Most selling dealers figure that about 80 per cent of all buyers will want the floppy disc system immediately. Well, too bad for them because there are virtually none to be found anywhere.

One manufacturer of software for the machines is rumoured to be developing a compatible disc drive that may be ready very soon. I suppose that if they do not do so, they will not be able to sell their software in significant volume.

To make matters worse, Commodore recently rejected shipment of 30,000 drives from Alps Electronics. The supposed reason for the rejection was an exceptionally high number of defective drives. Earlier in the year Commodore entered into an agreement with the Japanese firm Mitsumi to make drives, yet it appears that it will be at least one year before those products are marketable. The cost of this problem will be phenomenal, especially with the Christmas shopping season upon us.

One of America's largest retailers has so few units that most of its stores have only a demo drive, and many do not even have that! Several outlets have been back-ordered for two months or more.

The disc drive shortage has a doubly negative effect on software developers. First it makes them wonder if customers are willing to wait for an undetermined period of time before buying a competitively priced product for which disc drives are readily available, even if they are more expensive. Secondly, it is hard to develop software when you cannot even obtain a disc drive on which to develop the programs.

It will be extremely interesting to watch what develops. I am sure that Commodore has sent Santa a nice letter requesting lots of nice disc drives. By the time you read this we in the States will know if Commodore has been naughty or nice.



A firm called American Small Business Computer Inc. has announced the availability of a Tandy Colour Disc Kit that will expand the storage capabilities of the Colour Computer. The kit includes one 5¼in floppy disc drive which is a double density 40-track unit, a cable and plug-in program cartridge and a blank disc.

Each disc drive is capable of storing up to approximately 156K bytes, and a maximum of four drives can be supported. This would give your system up to a little over 626K of storage. In order to use the kit you must already have the Extended Colour BASIC package from Tandy. Each kit costs \$399. For more details, write to American Small Business Computer Inc., 118 South Mill Street, Pryor, Oregon 97461. (918) 825-4844.

See you next week.

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Fairfield, California

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For only £6.95 you don't just get one top quality computer game, you get two.

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from — three suitable for the ZX Spectrum and two for the Commodore Vic 20 — and there are more to come.

So hurry to the shops now and see for yourself how K-tel Doublesiders really do give you twice the fun with two on one.

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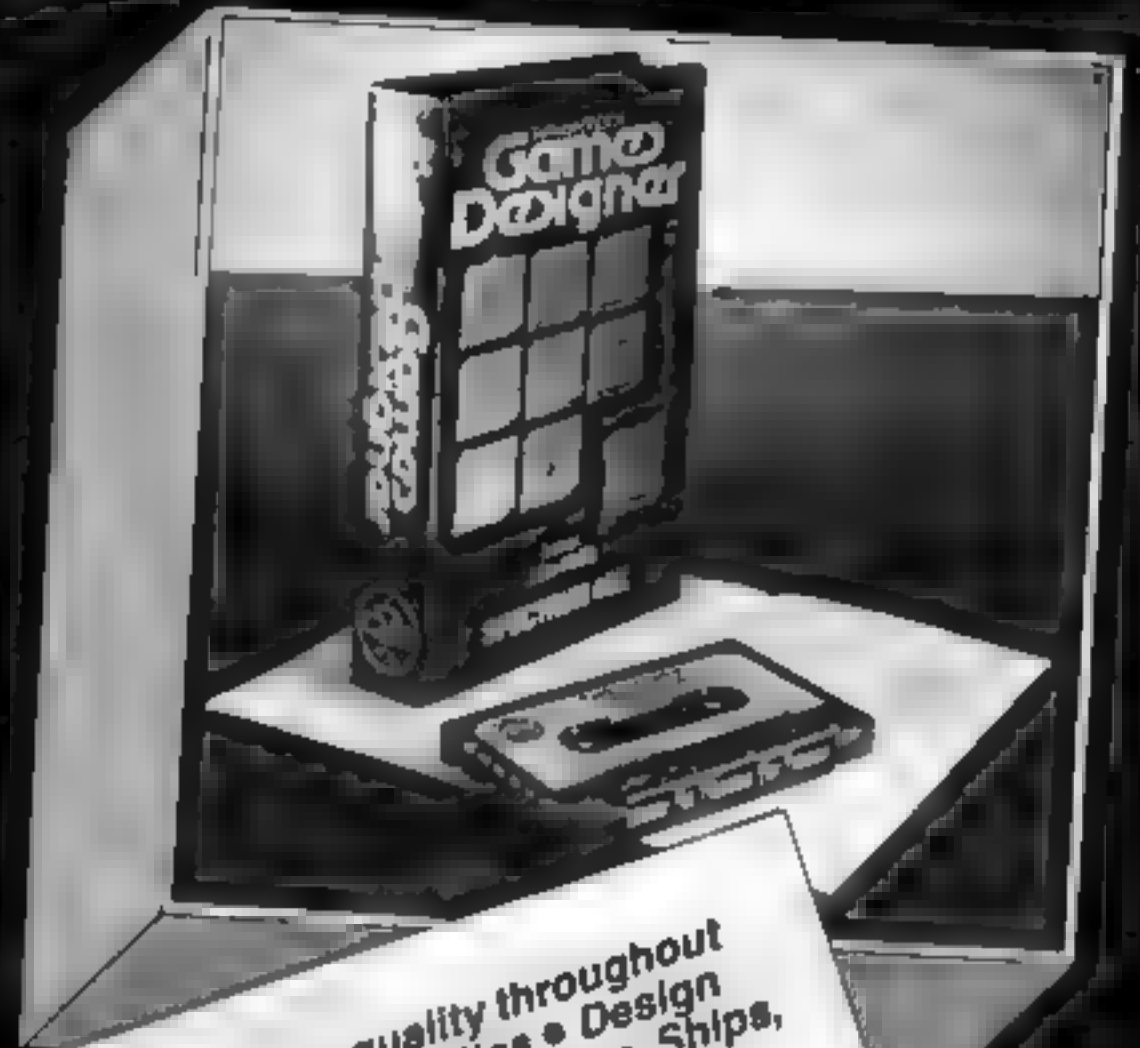
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Games Designer

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AGF

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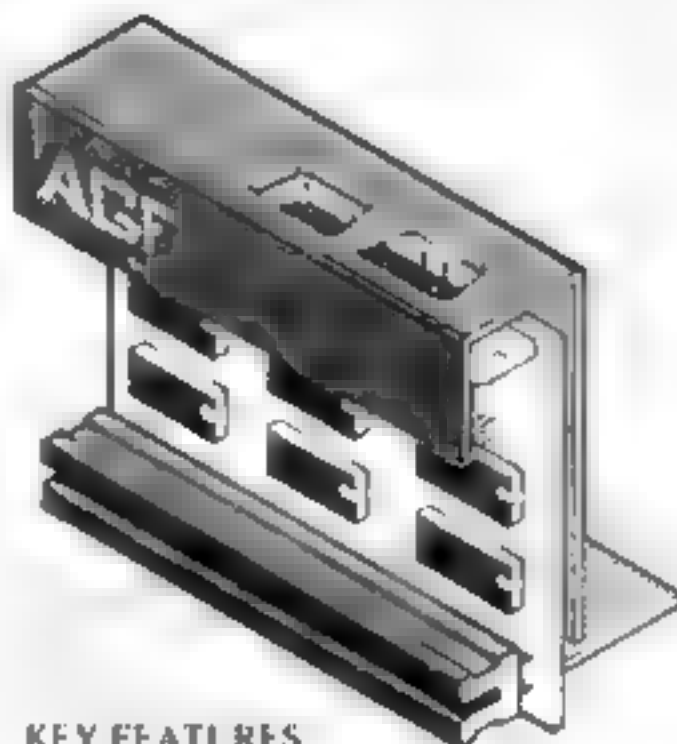
The Interface Module II has been specially designed to plug on to the rear connector of your ZX Spectrum or ZX81 and allow you to connect any standard Atari type digital Joysticks. All of the computer's connections are duplicated on an extension connector so that you can still use any other devices intended for use with your computer.

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| Cyber Rats | Silversoft | £5.95 |

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| | |
|----------------------------|----------------------------|
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| Penetrator | † Invaders |

† Will require 48K Memory.

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TEXAS CRACKERS

A Selection Box

1 BLAST IT

Home Computing Weekly Rated*****
Working against a time limit you must disarm several bombs, using a wire guided robot. Disarm in wrong order and bombs explode. Five levels of difficulty. Sound and graphics. A winner

2 CORE

Guide your vessel through three levels of experience to reach the core of knowledge. Avoid aircraft, clouds and birds. Struggle through tunnels and caves and then overcome the 3D maze. Score at end of each game try Spectacularly colourful ending. Sound and graphic Requires high finger twisting skills

3 SPUDZ

This is different. As a farmer you have to collect as many potatoes from your fields before sunset as you can. Don't fall into the trench or get caught in the shade. Score and Hi Score display. 4 levels of difficulty. Full sound and graphics

4 U.F.O.

It's your turn to save the world. Shoot down the aliens from Hyper Space before they reach Earth. Beware that the invaders can vanish into black holes before flying at your city. Features include refuel facility, high score. Three levels of play

5 FRUIT MACHINE

Have a gamble without risking your pocket money. Features gamble, collect, nudge and hold. Reels spin so you can work out sequences if you have a good memory. Be warned though that the spins are of random length

6 GETTING STARTED WITH THE TEXAS TI 99/4A

This is the long awaited book from Stephen Shaw includes TI BASIC, EXTENDED BASIC, PROGRAMMING FILE DATA. Example programs throughout. The essential TI book.

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**We've got together with
Richard Shepherd Software
to offer 1,000 readers a
Christmas present**

No nose is bad nose for Rudolph

Most computer games are aimed at older children, while the very youngest members of the family tend to be neglected. This game is for the very young children.

It is a variation on the party game Pinning the Tail on the Donkey, but in this game, the object is to place Rudolph's nose in the correct position.

The rules of the game are fairly straightforward, and any number of children may take part.

The program draws a picture of Rudolph with his bright red nose in position. After a few seconds the screen is cleared and the nose is left at the bottom right hand corner of the screen.

Using the cursor keys, the player must then replace Rudolph's nose in the correct position. Pressing the space bar

In this variation on an old party game, it's Rudolph's nose rather than a donkey's tail that has to be put back in the right place. Geoff Turner tells you how to play

How it works

- 40-120 short machine code routine to check if sound channel buffer is full
- 180-390 form main loop of the program, passing control to various PROCedures
- 400-850 PROCedures to draw Rudolph and house
- 860-910 PROCedure to give short pause at various points of program
- 920-1180 PROCedure to allow player to place nose in position
- 1190-1390 DATA statements to draw Rudolph and house
- 1400-1660 PROCedures to display titles and instructions
- 1670-1930 allow input of number of players and their names. Unusual method of input is used to allow music to play continuously
- 1940-2060 initialise variables
- 2070-2200 keep track of scores and display highest score at end
- 2210-2230 error reporting
- 2240-2290 PROCedure to play continuous music. Machine code routine is used to check if there is room in sound buffer. If there is, then another note is added to queue. Note: there are several calls to PROCmusic at various points in program, to ensure continuous output
- 2300-2360 data for musical notes

terminates the movement, and then Rudolph is redrawn in his original position without his nose

After each player has had his turn, the program calculates who was nearest, and displays the winner's name



Main variables

- VDU 240 Rudolph's eyes
- VDU 241 Rudolph's nose
- NS players' names
- SCORE each player's score
- P(-) pitch of each note
- DM(-) duration of each note
- High highest score
- RX,RY Rudolph's position
- A,B position of nose

```

10REM RUDOLPH'S NOSE
20REM By Geoff Turner
30ON ERROR GOTO 2210
40%=&D00
50C
60OPT2
70LDAM128
80LDX0250
90JSR&FFF4
100STX&00
110RTS
120J
130MODE7
140PROCINITIALISE
150PROC MUSIC
160PROC TITLES
170PROC INSTRUCTIONS
175REM MAIN LOOP
180MODE1
190GCOL0,175
200FOR P=1 TO 1
210RX=RND(200):RY=RND(200)
    
```

```

220CLG
230RE STORE 1190
240FPROC RUDOLPH(1)
250FPROC MUSIC
260FPROC HOUSE
270FPROC PAUSE(500)
280CLG
290FPROC PLACENOSE
300FPROC SCORE
310RE STORE 1190
320FPROC RUDOLPH(2)
330FPROC MUSIC
340FPROC HOUSE
350FPROC PAUSE(500)
360NEXT
370MODE7
380FPROC END
390GOTO 150
400DEFPROC RUDOLPH(D)
410VDU4
420CLOUR(1):COLOUR(75
430PINTTAB(1,1):IN(P)
440VDU(20,RY)
450GIL0,0
460FOR LL=1 TO 15
470READ L,X,Y
480MOVE X,Y
490FOR I=1 TO L
500READ X,Y
    
```

```

510DRAW X,Y
520NEXT
530NEXT
540VDU5
550MOVE 200,410
560VDU240
570MOVE 330,410
580VDU240
590IF D=2 GOTO 630
600GCOL 0,1
610MOVE 296,260
620VDU(24)
630VDU4
640ENDPROC
650DEFPROC HOUSE
660GCOL0,0
670READ X,Y
680MOVE X,Y
690FOR LL=1 TO 20
700READ X,Y
710DRAW X,Y
720NEXT
730READ X,Y
740MOVE X,Y
750FOR LL=1 TO 3
760READ X,Y
770DRAW X,Y
780NEXT
790READ X,Y
800MOVE X,Y
810FOR LL=1 TO 4
820READ X,Y
830DRAW X,Y
840NEXT
850ENDPROC
860DEFPROC PAUSE(T)
880FEAT
890PROC MUSIC
900UNTIL TIME T
    
```


LUNAR JETMAN - For the 48K Sinclair ZX Spectrum
LUNAR JETMAN - The Ultimate Intergalactic G.A.S. (Graphic Arcade Simulation) Adventure Space Battle
LUNAR JETMAN - Arcade standard, 100% machine code, incredible sound effects, amazing smooth high resolution graphics, the totally new additive concept and all those extra features you expect from the **ULTIMATE** games people
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COOKIE - 10/48K ZX Spectrum



PSSST - 19/48K ZX Spectrum



TROPIC 20 - 19/48K ZX Spectrum

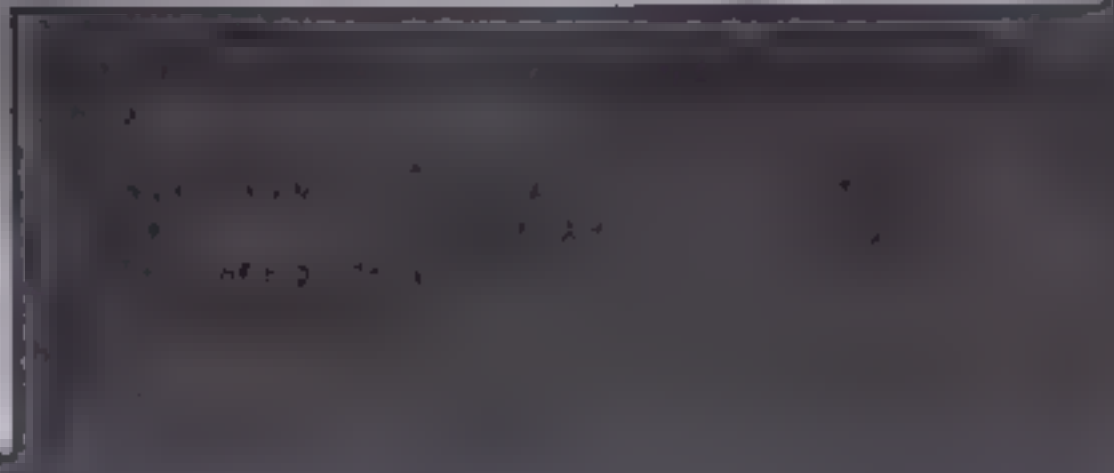
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Well, here is a fun and festive quiz to test your knowledge. There are no prizes.

Without checking anywhere, answer a, b, c or d to the following questions.

If you have read every issue of HCW you should be able to easily complete the quiz.

Your ratings

- 23 you are a genius or a cheat
 - 20-22 you should be on Sinclair's staff
 - 17-21 quite clever
 - 12-16 not bad at all
 - 7-11 haven't been paying attention, have we?
 - 2-6 are you sure you use a Sinclair computer?
 - 1 you'd be better off with an abacus!
- No-one could have score zero, could they? Could they?

The man himself — Sir Clive Sinclair

- 1 When was he born?
 - a 1962
 - b 1954
 - c 1940
 - d 1943
- 2 Where was he mainly educated?
 - a Cambridge
 - b London
 - c Weybridge
 - d Dundee
- 3 For how many years was he a technical journalist?
 - a four
 - b six
 - c two
 - d 10
- 4 What are the conversion costs for Sir Clive's luxury new home in London?
 - a £100,000
 - b £200,000
 - c £300,000
 - d £400,000

The company

- 5 When was Sinclair Research formed?
 - a 1978
 - b 1979
 - c 1980
 - d 1970

How well do you know Sir Clive Sinclair and the home computer boom he helped to create? Our quiz will test your knowledge

6 What was the name of Sir Clive's first company?

- a Sinclair Research
- b Sinclonics
- c Sinclair Electronics
- d Sinclair Radionics

7 What was the first product from Sinclair Research?

- a The pocket calculator
- b The Black Watch
- c The ZX80
- d cheap hi-fi equipment

The computers

8 The ZX Spectrum is based around an advanced

- a 14-chip design
- b four-chip design
- c seven-chip design
- d Space Invaders Master Control Chip

9 What was the original price of the ZX80?

- a £100
- b £69 95
- c £99 95
- d £120 99

10 The ZX Spectrum can transmit information

- a five times faster than the ZX81
- b at the same speed as the ZX81
- c 10 times faster than the ZX81
- d six times faster than the ZX81

11 How many months before the Spectrum was the ZX81 launched?

- a 10
- b 12
- c 13
- d 14

12 On average, how much does the ZX81 starter pack now cost?

- a £65
- b £50
- c £45
- d £20

THE FINAL

13 The author of the classic ZX81 program Mazogs later went on to write:

- a Manic Miner
- b Spectral Invaders
- c Maziacs
- d Jetpac

14 Beam Software is an alliance between two software houses. Which two?

- a Melbourne House and Psion
- b Quicksilva and Bug-Byte
- c Quicksilva and Ultimate
- d Psion and Micro-Gen

15 What game or games is Beam Software credited for?

- a just Penetrator
- b just the Horace series
- c The Hobbit, Penetrator and the Horace series
- d the Horace series and Penetrator

16 Who wrote, among others, 3D Monster Maze and Corridors of Genon?

- a Malcolm Evans
- b J. K. Greye
- c J. K. Evans
- d Malcolm K. Greye

17 Who wrote the best-seller Manic Miner?

- a Mark Smith
- b Mark Page
- c Matthew Smith
- d Matthew Page

18 Which company markets a game called Dictator for the ZX81?

- a dk'Tronics
- b Bug-Byte
- c Richard Shepherd
- d Quicksilva

19 Quicksilva director Mark Eyles is writing a book about:

- a starting a software company
- b the ZX Spectrum's CPU
- c the chess-playing computer
- d the Faliuvian Empire

20 Ocean markets several arcade-like games. Which of the following originals is not in its range?

- a Burgertime
- b Q*Bert
- c Donkey Kong
- d Space Panic

21 Ultimate Play the Game is at The Green in:

- a Ashby
- b Zoucu
- c Zouch
- d Ashby de la Zouch

22 Who is the author of Imagine's Arcadia and Ah Diddums?

- a Eugene Evans
- b John Gibson
- c Mark Butler
- d Dave Lawson

23 Silversoft's Orbiter is a version of:

- a Defender
- b Scramble
- c Asteroids
- d Star Trek

24 Timegate is produced by:

- a Mogul
- b Bug-Byte
- c Quicksilva
- d C R L



Quiz answers

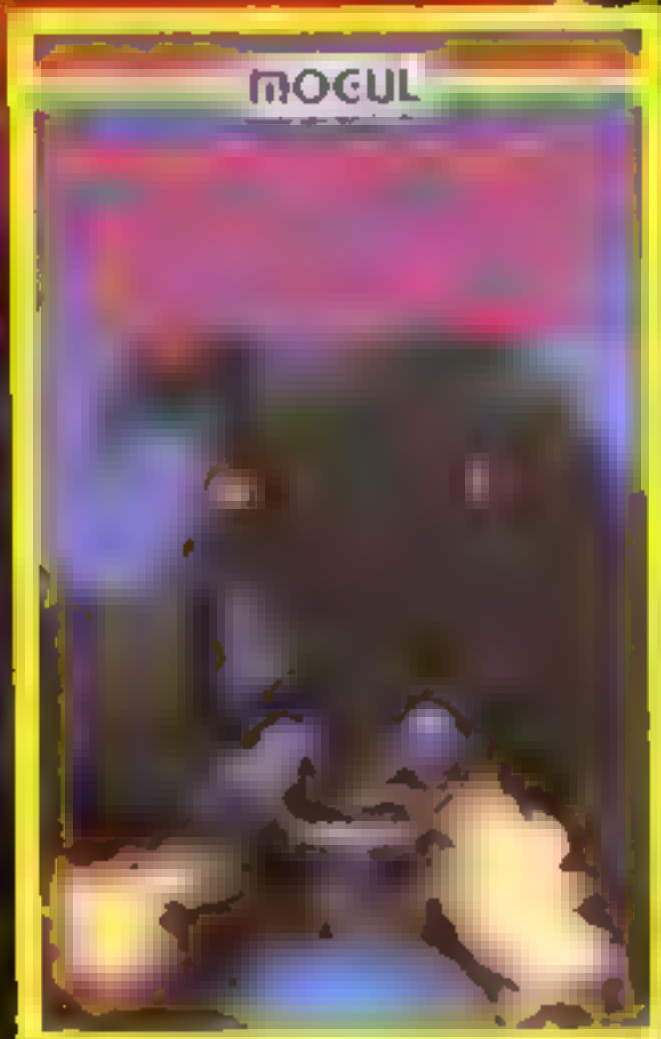
| | | | | | | | | | |
|----|---|----|---|----|---|----|---|----|----|
| 1 | c | 2 | c | 3 | a | 4 | d | 5 | b |
| 6 | d | 7 | c | 8 | a | 9 | c | 10 | d |
| 11 | c | 12 | c | 13 | c | 14 | b | 15 | d |
| 16 | b | 17 | c | 18 | b | 19 | d | 20 | b |
| 21 | d | 22 | d | 23 | a | 24 | c | 00 | 20 |

MOGUL

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You stumbled into the nest of the Cyglorx and find yourself fighting off robot tanks guarding the Cyglorx eggs. You think you have everything under control and then the eggs start hatching. Commodore 64 version features 4 different screens.
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OTHER GAMES AVAILABLE



MOGUL COMMUNICATIONS LIMITED
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Sort out Santa's present muddle

In this program for the Oric 1, Father Christmas has a problem in delivering his presents.

Santa loads up his sleigh with 10 presents. They are all carefully labelled with the recipient's name, and these are shown on the screen, with the contents of each parcel, at the start of the game.

You get 30 seconds to memorise the list (you'll need to remember this to help Santa later), then off you go on his sleigh.

Main variables

A number of names and presents
 F(), D() indicator arrays
 K a random number
 NLS array holding 10 selected names
 NMS array holding all available names
 PL indicator array
 PLS array holding the 10 selected presents
 PRS array holding all available presents
 SC score
 T counter
 H() sleigh character codes
 W input variable
 X, Y column position of sleigh

The journey south is depicted on the screen. The sleigh and reindeer will appear at the top of the screen, and you must imagine that you are above the sleigh, looking down at it.

The journey starts quietly enough, then all of a sudden you run into a snow storm with giant flakes of snow.

You have to help Santa to guide his sleigh through the snow storm, avoiding the snow flakes. You use the left and right cursor control keys to move the sleigh.

Every time you hit a snow flake you'll hear a crash, and a point will be deducted from your eventual score. The sleigh won't be damaged by the snow, but the object is to minimise the number of collisions.

Once you are through the snow storm, Father Christmas has to deliver the presents. But this is where he runs into another problem.

On the rough journey south,

A snowstorm has blown away all the labels on Father Christmas's parcels. David Nowotnik explains how you can help



all the labels have been blown away, and he doesn't know which present to deliver to which house. You'll have to help him.

A list of all the presents appears on the screen. As you come to a house, Santa will tell you who lives there, you have to tell him which present to deliver by entering the number beside the present which you think should be delivered.

Once all 10 have been delivered, then you are shown your list, and the correct list. You'll get two points for every present delivered, and a point deducted for every snow flake you hit on the journey south.

The object, of course, is to achieve a maximum score of 20. The game is a test of memory with the snow storm acting as a distraction.

How it works

10-110 initialise main variables for guessing game
 120-170 PRINT 10 selected names and presents on screen
 190 30 second delay
 1000-1070 initialise main variables for snow storm game
 1120-1130 check for valid key press
 1140-1160 remove sleigh from screen
 1170 scroll screen
 1180-1200 check if hit by snow flake, and reprint sleigh
 1220-1250 print snow flakes
 1270-1350 print score of snow flake game
 1440-1460 start guessing game initial
 1470-1660 print name, present list, enter, check selection
 1670-1780 print player's selection, and correct list — award points

In the program listing, there are 16 names and presents in data lines 5000 and above. In every game, 10 of these are selected at random.

To increase the interest in the game, you should add more names and presents.

To do this, add more DATA lines, each containing a name and present, and replace the number in the DATA line 5000 with the new total of names and presents.

```

10 REM Christmas Snow Storm
20 REM by David Nowotnik
30 REM December, 1983
40 REM
50 REM Initialise
60 REM
70 READA
80 DIMNM$(A), PR$(A)
90 DIMPL(A), NLS(10), PLS(10)
100 POKE610, 10: PAPER7: IN#0
110 FORI=1TOA: READNM$(I), PR$(I): NEXT
120 CLS: PRINT: PRINT, "Santa's Present List": PRINT: PRINT
50 FORI=1TO10
140 K=INT(RND(1)*A)+1: IFPL(K)=1THEN140
150 PRINTNM$(K), PR$(K)
    
```

```

160 NLS(I)=NM$(I): PLS(I)=PR$(I)
170 PL(I)=1: NEXT I
180 PRINT: PRINT: PRINT, "You have 30 seconds to", "...", "remember this list"
190 PING: WAIT 1800
200 PING: CLS
210 PRINT: PRINT: PRINT: PRINT "O.K. Off we go with those presents"
220 WAIT 500
1000 REM Snow storm
1010 X=15: SC=0: T=0
1020 IN#7: PAPER0: CLS
1050 FORJ=1TO20: PRINT: NEXT
1060 DIMT(3)
    
```

ORIC CHRISTMAS PROGRAM

```

1070 T(1)=160:T(2)=35:T(3)=5
1100 REPEAT
1110 Y=X
1120 IFPEEK(520)=172ANDX>0THENX=X-1
1130 IFPEEK(520)=188ANDX<30THENX=X+1
1140 FORJ=1TO3:REM Remove Sleigh from screen
1150 POKE48002+Y+40*J,32
1160 NEXT
1170 PRINT:T=T+1:REM Move up snowflakes
1180 FORJ=1TO3:REM Detect hit and reprint sleigh
1190 IFPEEK(48002+X+40*J)<>32THENS=SC+1:EXPLODE
1200 POKE(48002+X+40*J),T(J):NEXTJ
1210 IFY<100RT>90THENWAIT5:GOTO1260
1220 REM Print snowflakes
1230 FORI=1TO2+INT(4*RND(1))
1240 POKE49042+INT(RND(1)*37),42
1250 NEXTI
1260 UNTILT=115
1270 PRINTCHR$(30);PRINT:PRINT:PRINT:PRINT:PRINT
1280 PRINT,"You are through the storm"
1290 PRINT:PRINT
1300 IFSC>1THEN1340
1310 IFSC=1THEN1330
1320 PRINT,"You avoided all snowflakes":GOTO1350
1330 PRINT,"You struck just 1 snowflake":GOTO1350
1340 PRINT,"You struck ";SC;" snowflakes"
1350 WAIT500
1360 PRINT:PRINT:PRINT" Now lets deliver the presents."
1370 PRINT:PRINT" Remember, Santa has forgotten which"
1380 PRINT"present belongs to which child. When"
1390 PRINT"you come to a house, Santa will give"
1400 PRINT"you the name, you have to select the"
1410 PRINT"right present."
1420 PRINT:PRINT" Press any key to start"
1430 IFPEEK(520)=56THEN1430
1440 PAPER7:INK0:CLS:PRINTCHR$(17)
1450 DIME(10),D(10)
1460 SC=SC:T=0
1470 FORI=1TO10
1480 CLS
1490 K=1+INT(RND(1)*10):IFE(K)=1THEN1490
1500 PRINT:PRINT" Child's name is ";NL$(K)
1510 E(K)=1
1520 PRINT:PRINT:PRINT
1530 FORJ=1TO10
1540 IFD(J)<>0THEN1560

```

```

1550 PRINTJ,PL$(J)
1560 NEXT
1570 PRINT:PRINT:PRINT" Enter the number of the toy
for"
1580 PRINTNL$(K)
1590 PRINT:PRINT
1600 INPUTW
1610 IFW<1ORW>10ORW<>INT(W)THEN1600
1620 IFD(W)<0THEN1600
1630 PRINT:PRINT"Present ";PL$;" is delivered"
1640 IFW=THENT=T+1
1650 WAIT400:D(W)=+
1660 NEXTI
1670 CLS:PRINT:PRINT" Compare your list on the right w
ith"
1680 PRINT"the correct list in the centre."
1690 PRINT:PRINT
1700 FORI=1TO10
1710 N=NL$(I)
1720 FORJ=1TOLEN(N$):A$=MID$(N$,J,1):PRINTA$;:IFA$=" "T
HEN1740
1730 NEXTJ
1740 PRINT:PRINTSPC(10);CHR$(11);PL$(I);PRINTSPC(25);CH
R$(11);PL$(I)
1750 NEXTI
1760 PRINT:PRINT" You got ";T;" right"
1780 PRINT:PRINT" Your final score is ";SC+2*T
5000 DATA6
5010 DATAJohn Smith,Train Set
5020 DATAHarry Todd,Model Car
5030 DATADavid Carter,Bicycle
5040 DATARon Brown,Toy Fort
5050 DATACarol Daly,Fluffy Bunny
5060 DATAClaire Roberts,Doll
5070 DATASylvia Black,Doll's Pram
5080 DATAAileen Gray,Noddy Book
5090 DATAHenry Forrest,Video Games
5100 DATAWilliam Batey,Scalextric
5110 DATAKevin Vincent,Big Trak
5120 DATACharlie Knight,Home Computer
5130 DATAJackie Drummond,Typewriter
5140 DATAFrancis White,Tea Set
5150 DATAMarilyn Jones,Doll's House
5160 DATAKathy Morgan,Painting Set

```

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BBC CHRISTMAS PROGRAM

You wouldn't want anyone to go without presents, would you? Type in this game to give Father Christmas a hand. Martin Hollis, aged 12, wrote it for the 32K BBC Computer

It's Christmas Eve and now is your chance to help Father Christmas deliver a pile of presents to one last house. Unfortunately the house is on the other side of a fir forest and his reindeer cannot get through the trees, so he has to walk.

He is so tired by now that he can only carry one present at a

How it works
 10-50 initialisation, instructions
 60 set up screen, give Santa a present
 100 increment score for delivering present
 120 finish if out of lives or all presents delivered
 150 reset Santa and give him a present, draw more trees
 160-240 instructions for PROCs
 250 DATA for graphics
 260-280 centre text
 290-350 draw trees on screen
 360-560 set up graphics
 570-630 movement routines
 640-670 check if Santa has hit tree and still has time
 680-710 sound
 720-780 end game routine

time and has to make endless journeys through the forest to deliver his presents

The first present is quite easy to deliver. All he has to do is avoid bumping into the trees and when he enters the door of the house his present is safely delivered and he is whisked back to his base by magic

However, the next time he makes the journey the forest is thicker and when he has delivered the present he finds his magic has run out. He has to return on foot to collect the next present and then trudge back to the house to deliver it (that is if he can do it all in the time allowed).

After delivering the second present he finds his magic has been restored and he is again back at base, ready for a new go

Unfortunately he now has three presents to deliver and now his magic will only bring him instantly back to base after

delivering all three presents having trudged through the forest a total of five times... and so it goes on with more presents and thicker forests each time until eventually he loses all three lives.

How many presents can you help him deliver before he runs out of time or loses a turn by crashing into a tree?

He has a total of three lives in each game which are lost either by crashing into a tree which then becomes an impassable shrub or by running out of his bonus (time)

At the start of the game the title and instructions are displayed with an appropriate jungle. The operating keys — S and X for up and down, and the less than and greater than keys for left and right — are displayed and you are given the option of sound or silent running

At the end of each journey the score is displayed, while a new bonus (time limit) starts running for the next journey. When all three lives are lost the hi-score is displayed

The game will run on a 32k BBC micro only. Most of the memory is used as the game is in Mode 1 so when typing in the pro-

gram avoid all unnecessary spaces and do not add any extra

Good luck. I hope you're not too tired to have a Happy Christmas!

Main variables

A% general loop counter
 B% bonus or time left
 C%, D% counters for random tune
 G% true if Santa has present to deliver
 H% No. of presents to be delivered
 I% hi-score
 L% lives left
 M% true if greater than or less than keys pressed
 P% presents delivered
 T% loop counter for opening jungle
 V% volume setting (0 or 15)
 X%, Y% trees X Y co-ordinates
 S% score
 ED% true if game is to end
 P% (DIMED 39 by 29) object at that position
 Y%(0), Y%(1), Y%(2), Y%(3) Santa's X, Y co-ordinates, old X, Y co-ordinates
 GS Y or N for sound on/off or another game
 BS, MS, RS, TS bottom floor, middle floor, roof, top floor of house

Main PROCedures
 PROCINST displays instructions, title, plays opening jungle
 PROCVDU23 defines all VDU23 statements
 PROCSCR draws screen
 PROCHECK checks to see if Santa's three lives gone or not and, if so, calls PROCsplat
 PROCMOVE moves and plots Santa and his present
 PROCTUNE plays random tune on delivery of present
 PROCsPLAT end if Santa has crashed into a tree or has run out of time

```
10 IX=0
20 CLEAR:DIMPX(39,29),YX(3)
30 REPEAT
40 PROCINST:HX=0
50 EDX=0:YX(0)=39:YX(1)=28:YX(2)=39:YX(3)=28:BX=0:HX
=HX+1:PX=0:LX=3:BX=-1:BX=500
60 MODE1:PROCVDU23:PROCBR:PROCBR:PROCBR
70 REPEAT
80 PROCHECK
90 PROCMOVE
```

HELP SANTA TO DELIVER PRESENTS



BBC CHRISTMAS PROGRAM

```

100 IFYX(0)=39ANDYX(1)=29BX=-1
110 IFYX(0)=2ANDYX(1)=4ANDXBX=BX+(BX DIV 20)+(HX*5)
PRINTAB(0,0) "SCORE="BX;PX=PX+1;GX=0
120 PX(39,20)=0:UNTILPX=HX OR EDX
130 IFEDXTHEN770
140 PROCTUNE
150 YX(0)=39:YX(1)=20:HX=HX+1:PX=0:BX=-1:BX=(HX*200)+
300:PROCBCR:BOT070
140 DEFPROCINBT
170 VDU22,7
180 PRINT "PROC(CHR$(141)+"FATHER CHRISTMAS"):PROC(
CHR$(141)+"FATHER CHRISTMAS"):PRINT "BY MARTI
N HOLLIS":PRINTAB(0,23) "Press any key for instructio
ns":G=GET:CLS
190 PRINT "You have to go through the woods to the
door of the house to deliver your knee presents. If yo
u crash into a tree you
also lose a life. You also lose a life when your Bon
us runs out. If you succeed you then have to deliver
the presents, returning to the start on footto colle
ct the next present."
    
```

```

390 VDU23,230,60,126,255,255,255,126,24,60
400 VDU23,241,0,1,1,1,3,3,7,15
410 VDU23,242,0,128,128,128,192,192,224,240
420 VDU23,243,15,31,63,127,1,1,1,3
430 VDU23,244,240,240,240,252,254,128,128,128,192
440 VDU23,245,0,0,0,0,0,0,7,63
450 VDU23,246,0,0,0,3,3,255,255,255
460 VDU23,247,0,24,255,255,255,255,255,255
470 VDU23,248,0,0,0,192,240,255,255,255
480 VDU23,249,0,0,0,0,0,224,252
490 VDU23,250,255,255,255,255,255,255,255,255
500 VDU23,251,255,255,255,0,0,0,0,0
510 VDU23,252,255,255,255,255,241,241,241,255
520 VDU23,253,255,255,255,255,143,143,143,255
530 VDU23,254,255,241,241,241,255,255,255,255
540 VDU23,255,255,143,143,143,255,255,255,255
550 R#CHR$245+CHR$246+CHR$247+CHR$248+CHR$249: T#BTR
ING$(5,CHR$250): M#CHR$252+CHR$253+CHR$251+CHR$252+CHR$
253: B#CHR$254+CHR$255+" "+CHR$254+CHR$255
560 ENDPROC
570 DEFPROCMOVE:HX=0:VDU5:BCOL0,0:MOVEYX(0)=32,1024-
YX(1)*32:VDU25:VDU4
580 PRINTAB(0,0) "SCORE="BX;TAB(15,0) "LIVES="LX;T
AB(20,0) "BONUS="BX:
590 YX(2)=YX(0):YX(3)=YX(1):IFINKEY(-103)ANDYX(0)>BX
(0)=YX(0)-1:MX=-1ELSEIFINKEY(-104)ANDYX(0)<39YX(0)=YX(0
)+1:MX=1
600 IFINKEY(-02)ANDYX(1)>2ANDNOTHXYX(1)=YX(1)-1ELSEIF
INKEY(-07)ANDYX(1)<29ANDNOTHXYX(1)=YX(1)+1
610 COLOUR1:PRINTAB(YX(2),YX(3)) " ":TAB(YX(0),YX(1
)):CHR$(224)
620 IFBXVDU5:BCOL0,3:MOVEYX(0)=32,1024-(YX(1)*32):VDU
225:VDU4
630 BX=BX-1:ENDPROC
640 DEFPROCCHK:IFBX<1BX=0:BOT0670
650 IFPX(YX(0),YX(1))=0ENDPROC
660 IFPX(YX(0),YX(1))=2COLOUR1:PRINTAB(0,1):R#T#M#
B#YX(0)=YX(2):YX(1)=YX(3):ENDPROC
670 PROCPLAT:ENDPROC
680 DEFPROCTUNE:IFVX=0ENDPROC
690 FORAX=0TORND(2)+3
700 REPEAT:CX=RND(255):DX=RND(255):UNTILDX<>CX:FORBX=
CXTORXBTEPBN(CX-CX)=RND(3):SOUND1,-15,BX,0:NEXT(NEXT
710 ENDPROC
720 DEFPROCPLAT
730 SOUND0,VX,4,20:FORAX=0TD100:PRINTAB(YX(0),YX(1)
):CHR$(34+RND(4)):NEXT(LX=LX-1):IFLX<1 EDX=-1
740 COLOUR2:PRINTAB(YX(2),YX(3)):CHR$(230):TAB(YX(0)
,YX(1)):CHR$(230):PX(YX(2),YX(3))=1
750 IFBX<1BX=HX*200+300
760 YX(0)=39:YX(1)=20:YX(2)=39:YX(3)=20:ENDPROC
770 CL0:IFBX>1XIX=BX
780 PRINT "YOU ARE DEAD" "YOU WERE KILLED ON LEVEL
"IX "YOUR SCORE WAS "BX "HIGH SCORE IS "IIX "ANOTH
ER GAME Y/N":REPEAT:G#GET:UNTILG#="Y"ORG#="N":IFG#="Y
"THEN20
    
```

```

210 PRINT "PROC("S
DOWN"):PROC("X
LEFT"):PRINT
220 PROC("Sound Y/N"):REPEAT:G#GET:UNTILG#="Y"OR
G#="N":IFG#="Y"VX=-15ELSEVX=0
230 IFVX=-15RESTORE250:FORIX=0TO29:READAX,BX:SOUND1,-
15,AX,0X:BOUND1,0,0,1:NEXT
240 ENDPROC
250 DATA101,0,121,0,121,4,129,4,121,4,117,4,109,0,109
,0,137,0,137,4,141,4,137,4,129,4,121,4,117,0,101,0,101,
109,0,129,0,117,0,121,16
260 DEFPROC(M#)
270 PRINTAB(M#)
280 ENDPROC
290 DEFPROCBCR:FORAX=0TO5:PX(AX,1)=2:PX(AX,2)=2:PX(AX
,3)=2:PX(AX,4)=2:PX(AX,5)=2:NEXT:PX(39,20)=3:PX(2,4)=0
300 FORAX=0TOHX+1=10
310 VDU19,2,2,0,0,0:COLOUR2:REPEAT
320 XX=RND(39)-1:YX=RND(29)-1:UNTILPX(XX,YX)=0ANDPX(X
X,YX+1)=0ANDPX(XX+1,YX)=1:PX(XX+1,YX)=1:PX(XX+1,Y
X+1)=1:NEXT:COLOUR1:PRINTAB(0,1):R#T#M#B#
330 PX(39,20)=0:PX(3,5)=0:FORAX=0TO4:PX(5,AX)=0:PX(AX
,5)=0:NEXT:PX(5,5)=0:ENDPROC
340 DEFPROCVDU23:VDU23:8202:0:0:0:
370 VDU23,224,20,20,0,127,0,20,34,65
380 VDU23,225,0,0,0,20,20,0,0
    
```



A breath of fake fresh air



Everest Ascent CBM 84 £8.50

Richard Shepherd, 3-25 Elmshott Lane, Cippenham, Slough

Not so much an adventure, more of a simulation. The idea of the game is to lead a team of sherpas on an ascent of Mount Everest.

You start off with £1,000 which is used to hire sherpas, and buy equipment and food. You may receive further funds during the game to put to a similar use.

A certain amount of mental acrobatics are necessary to ensure that you keep enough cash to pay your sherpas and buy enough food to feed them.

In keeping with any game worth its salt, there is more useful equipment on sale than you can afford.

Once equipped, you charge off

up the mountain, making camps as you see fit and negotiating crevasses, rock faces etc. You will generally need a particular piece of equipment to pass an obstacle.

As usual, the game is a race against time; do I reach the summit before running out of food, cash or equipment?

The use of graphics and sound were minimal and mediocre. There were certain weaknesses in display of data but overall it was tolerably sound. It won't drive you mad with excitement, but overall a nice complex game which will keep the brain twitching for some time. **A.W.**

| | |
|-----------------|-----|
| instructions | 80% |
| playability | 65% |
| graphics | 40% |
| value for money | 75% |



Spectrum Bowls 48K Spectrum ES

Lotus-soft, 43 Maes Road, Llangennech, Llanelli, Dyfed SA14 8UH

The program itself is quite clever, user-friendly and graphical.

The problem is, it is written in BASIC, so there are a few limitations: firstly speed, and secondly sound and vision. The program is full of BEEP commands which become very irritating after a short while.

In play you must first choose your direction to throw by moving a 'cursor' (which is in fact a line which points towards the jack), and pressing enter.

Then you must press b to bowl

and a 'weight' at which you wish to throw. A small pixel will rush up the screen and, with any luck, position itself next to the jack.

If it hits something then everything flies off in different directions as it would in a normal game.

If something hits something which in turn hits something else, though, I suspect the program may not quite be doing what it is supposed to.

When the bowls have all stopped rolling, you can get an enlargement which shows more clearly what is happening at the other end of the screen. **P.S.**

| | |
|-----------------|-----|
| instructions | 85% |
| playability | 67% |
| graphics | 58% |
| value for money | 60% |



Golf TI-99/4A £8

Stainless Software, 10 Alstone Road, Stockport, Cheshire SK4 5AH

This is probably the best golf game that I have ever seen on a computer.

The course played on has 18 holes and, not surprisingly, is in Texas. It has a par of 72.

The player has a choice of 14 clubs - four woods, nine irons and a putter.

All the usual hazards are there: rough, trees, water and bunkers.

After you enter your handicap, the hole is drawn on the screen.

The graphics used to do this are excellent.

The par of the hole, the number of shots that have been taken and the length of the hole are all

shown at the top of the screen. When the ball is hit, it can be faded down the screen, drawn up the screen or shot straight towards the hole.

My only criticism would be that when the ball has landed in a bunker it cannot be seen. This is because both bunker and ball are white.

When you manage to hit the ball on to the green, the display of the fairway is cleared from the screen and is replaced by a larger scale picture of the green.

An indication of the speed of the green is also displayed. **J.J.**

| | |
|-----------------|-----|
| instructions | 90% |
| playability | 90% |
| graphics | 95% |
| value for money | 95% |



Soccer Supremo TI-99/4A £8

Dromeda, 56 Wells Street, Haslingden, Rossendale

You have a choice of managing one of eight fourth division sides and your job is to take your team from the fourth to the first division.

You start with £100,000 and this will vary as you play according to the gate money received each week, the players' wages and on whether you buy or sell players.

Numerical ratings are given for team spirit, overall performance and individual players' ability and fitness. These ratings are compared with your opponents', and your team may be selected from a squad of not more than 16

players. The ratings change throughout the season, so it is up to you to select your best team from the squad available.

At any time a player may be unavailable through injury or may need to be rested due to a low fitness rating.

You may sell a player at any time, and you are occasionally given the opportunity to buy.

If finances run low a loan may be obtained but must be paid back by the end of the season.

There are lots of things to think about, but thanks to a very detailed set of on screen instructions you will soon get the hang of it. **D.B.**

| | |
|-----------------|-----|
| instructions | 95% |
| playability | 90% |
| graphics | n/a |
| value for money | 90% |



T.I. Cricket TI-99/4A £8

Dromeda, 56 Wells Street, Haslingden, Rossendale

This is a text-only game based on the rules of limited overs cricket.

Two teams are involved: England and the West Indies.

However, one side of the tape contains an instruction programme with details of how to enter the teams and players so you can have your favourite county or test sides in the game.

Turning the tape over enables you to enter the game itself. You select which side bats first and how many overs are to be bowled in the match.

The list of players is shown together with numerical ratings indicating their batting ability against certain types of ball, i.e.

pace, spin or swing.

The two opening batsmen are then selected and are shown on a "cricket scoreboard" type of screen display.

You choose a bowler from a list of 11 and again their ability to bowl the three types of ball are indicated numerically.

You then decide whether to bow a pace, spin or swing ball and where to place the ball, i.e. on wicket, leg stump or off stump.

The result of the selection is given by the number of runs scored or the batsman being given out. **D.B.**

| | |
|-----------------|-----|
| instructions | 90% |
| playability | 80% |
| graphics | n/a |
| value for money | 80% |



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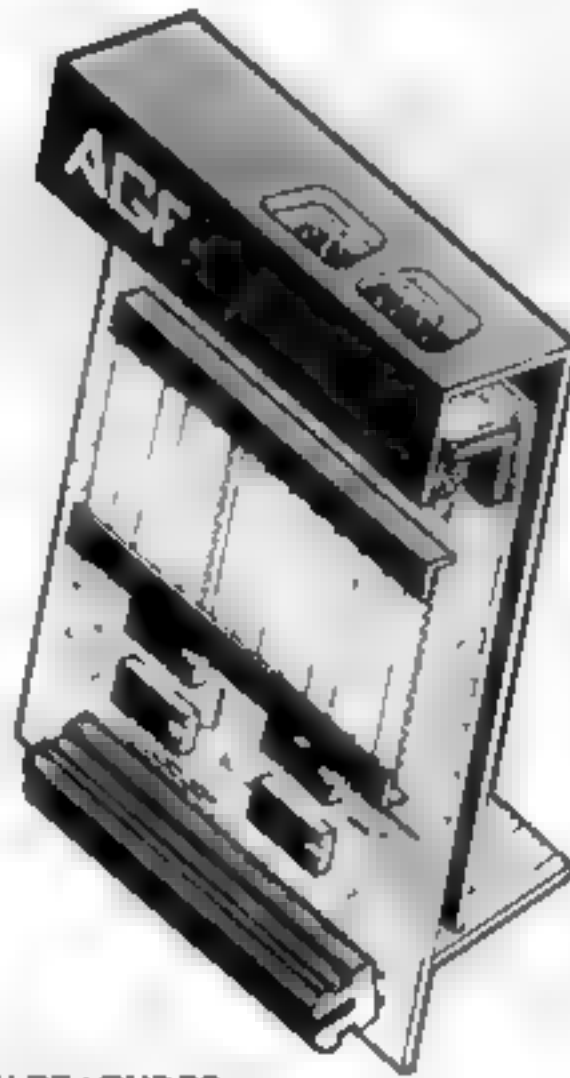
There is no need to remove the interface once fitted as the rear extension connector will accommodate further expansion, i.e. printers or RAM packs etc. This important feature avoids excessive wear to the expansion port.

The key replication principle pioneered by AGF means that your own programs can use eight directional joystick movement by utilising simple key reading BASIC.

Two joystick sockets are provided which share the same keys, for use with the majority of two player games. Several interfaces may be used on the same computer for multiple joystick applications.

The interface is programmed by a two digit code, which is looked up on a programming chart supplied, for each direction and firing button. The two numbers are then selected on a pair of leads which are clipped onto appropriately numbered strips on the interface.

Once configured this can be marked on a Quick Reference Programming Card for storing with the game. As the programming is not power dependent the interface retains the last configuration made and can be immediately used when next switched on.



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and **WHSMITH** 

Monster Maths 32K BBC £6

Shards, 189 Eton Road, Ilford, Essex

This compact cassette contains five subprograms all of which can be selected from a menu without the need to load any further files.

The programs however leave something to be desired. The first is Rectangles where you have to estimate the area of one rectangle in terms of another. This is not an easy skill, and not as useful as a simpler area calculation program might be.

Monster Maths, the title program, is quite good with you or your friends being eaten by the monster depending on your performance in answering three problems in a set time span.

Both the Times Tables and Arithmetic programs are simple drills of no particular note or merit.

The final, Mystery Numbers, program is very like a certain TV quiz show, where you are given a target number and have to form that number from the other numbers given by combining them in any mathematical sequence.

The difficulty is that in this program even level 1 can give problems like finding 468 from 21, 18 and 12. This may be fine for adults but not for the target age group.

| | |
|-----------------|-----|
| instructions | 50% |
| ease of use | 80% |
| graphics | 70% |
| value for money | 70% |



Play as you learn

Do primary teaching programs really work? Our reviewers find that some do, some don't

Early Punctuation 48K Spectrum £9.95

Sinclair, 28 Stanhope Rd, Camberley, Surrey

Not knowing the age group that this rather expensive program was aimed at made it difficult to decide its usefulness.

It states that a full stop is used at the end of a sentence only, so I assume a lower primary level.

For young children it would be great fun to get all the sentences right to get to the shooting game that follows.

Graphics, colour and sound are good, with a little man running to correct the sentences at the player's command.

Each sentence correctly

punctuated lays down a row of bricks until the last two pup up five bottles each.

Then the player shoots the bottles down with an on screen tally being kept. The overall score can be printed out.

The beauty of such a program is that the sentences used can be changed. Any attempt by the player to complete the tasks by trial and error will show up in the final score.

I wonder if parents or teachers will really want to spend time putting in different sentences when writing them on to paper or a blackboard is so much simpler.

| | |
|-----------------|-----|
| instructions | 90% |
| ease of use | 90% |
| display | 85% |
| value for money | 70% |



Jungle Jumble 48K Spectrum £6.50

Computertutor, PO Box 3, St Neots

The basic idea is simple and well executed with the child — and parent — being welcomed by Clever Clogs asking their name.

A real or silly animal is chosen, which will be hidden behind a rectangle of 18 x 19 question marks.

Correct responses to questions make C.C. smile and some questions on marks disappear revealing the animal.

Wrong answers cause him to grimace and parts of the picture to black out.

Eventually the computer says well done and exposes the animal and the Safari Game

starts. A truck is driven to a tent, missing trees and entering the first letters of animals that moment as it flash up stopping the truck.

"The child that shines is the one whose parents take time to support classroom work" states the insert to this program, that will only be as useful as the quantity and quality of parental input.

So it is a shameful omission, on an otherwise useful aid, that it is impossible to alter the questions in the way stated.

"Press p for play" only appears at the start — it has to be reloaded to make alterations!

| | |
|-----------------|-----|
| instructions | 80% |
| ease of use | 80% |
| display | 75% |
| value for money | 70% |



Capital Letters 48K Spectrum £9.95

Sinclair, 28 Stanhope Rd, Camberley, Surrey

I had great trouble loading this program but it was worth it in the end.

It starts with a teaching part, giving simple sentences as examples. Then a tree grows to the accompaniment of sound effects. Below it are four bands of instructions that in a teaching program should be larger and much easier to read.

A sentence to be corrected appears on screen with a green apple that can be moved along above it. Key 6 changes the letter below the apple to a capital.

If you get it wrong, you're told

"try again", without any return to the teaching section. The score gives number of tries, thus showing up any trial and error attempts, but disappears too quickly unless you use a printer.

In the second game an apple falling from the tree has to be stopped — impossible on the review copy — by pressing the key corresponding to the letter on the screen.

Animation, sound and graphics were excellent.

Both primary and remedial children would enjoy this way to learn and reinforce knowledge.

| | |
|-----------------|-----|
| instructions | 90% |
| ease of use | 90% |
| display | 85% |
| value for money | 70% |



Amazing Ollie 32K BBC £6.95

Storm Software, Winchester House, Wootton Grove, Sherborne, Dorset

Subtitled Learning about Numbers, this is what the graded levels of the program are supposed to encourage.

Unfortunately there is a major flaw in the program's concept. I do not believe that children who could get the most from and indeed who need a program like this will be able to master the complicated way the game is played.

The basis of the program is a maze which it generates when first run.

You then have to navigate this maze in order to count or collect the fish that Ollie the Octopus

needs to feed his children. If you believe that a young child can cope with such problems while learning about numbers, then this may be of help. Otherwise, it is simply a game program for an older child.

The levels within the program are well chosen. They start with number recognition in Finding Fish, progress to simple addition in Counting Fish and then extend this to a Beat the Clock activity.

There is another advanced option where you don't even see the maze, only the possible directions.

| | |
|-----------------|-----|
| instructions | 80% |
| ease of use | 30% |
| graphics | 80% |
| value for money | 50% |



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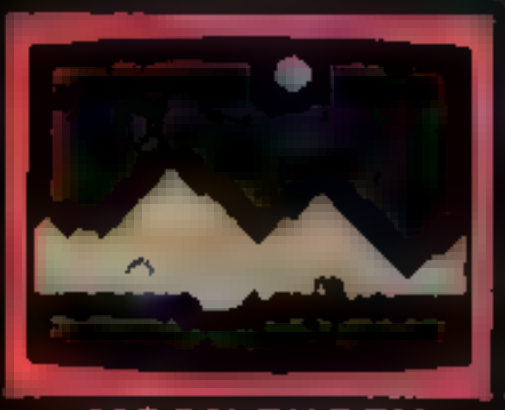
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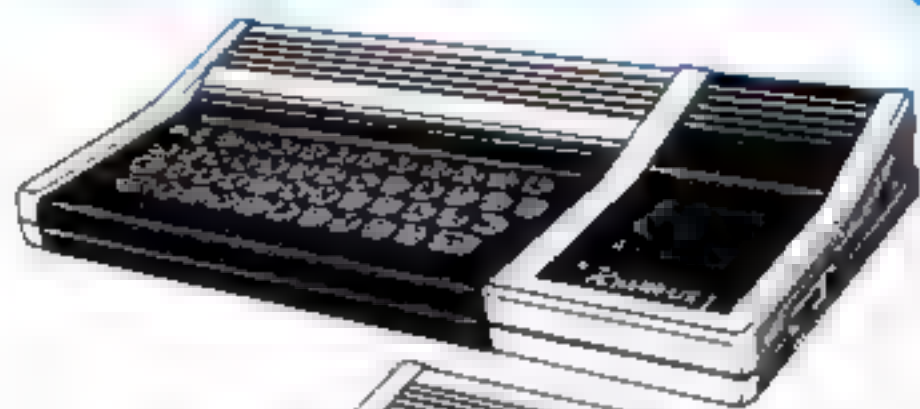
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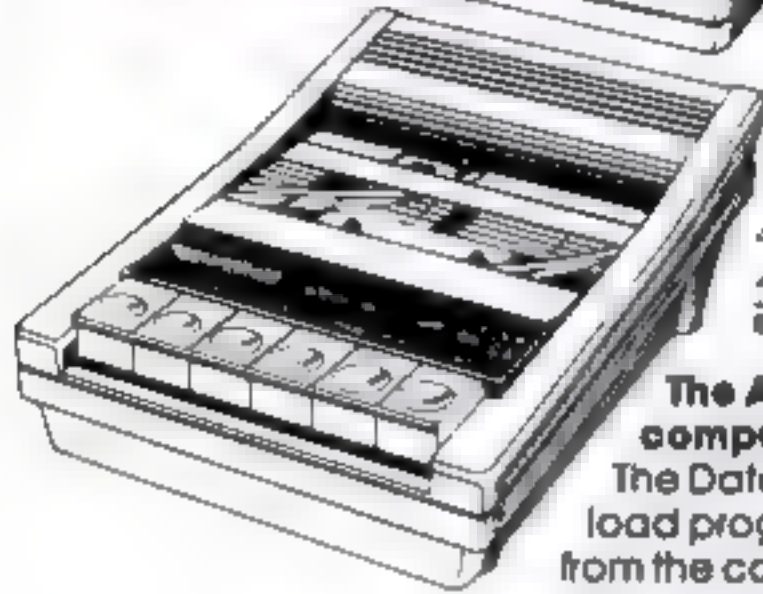
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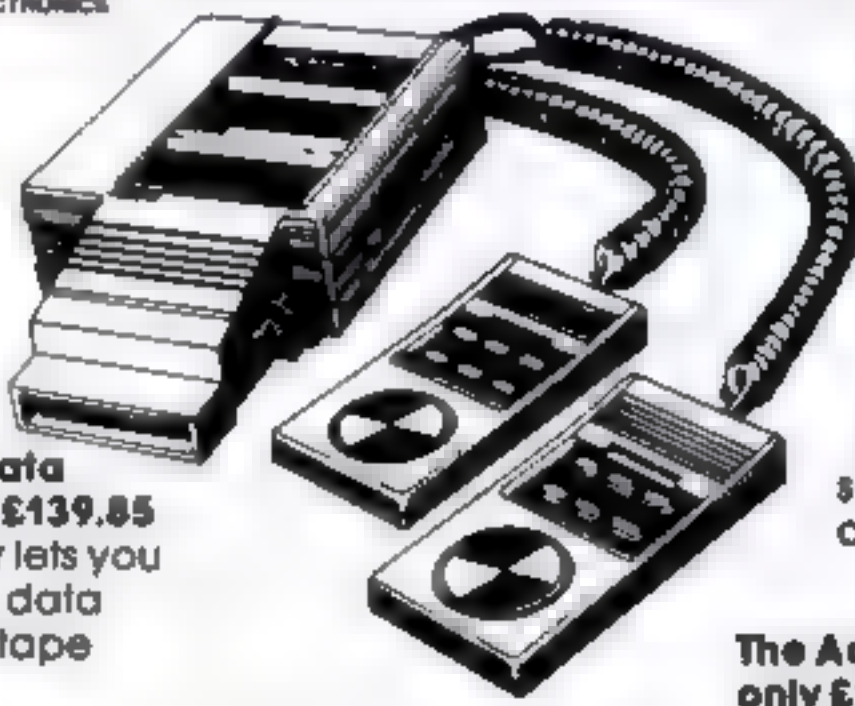
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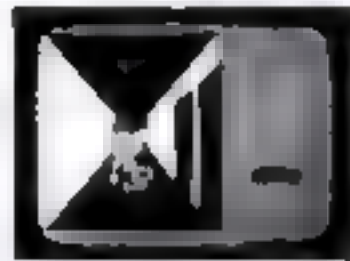
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Burger Time
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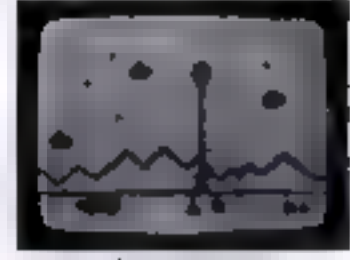
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This distinctly festive game puts you in a difficult position.

You have been invited to a Christmas party at your boss's home. The mince pies have been made by his wife, and although they're the worst mince pies you've ever come across, your chances of promotion depend on eating as many as you can.

Unfortunately, the pies are so stodgy that you have to drink a glass of sherry before you tackle another one. The sherry has a predictable effect, and your hand becomes increasingly difficult to control.

You can regain control (usually — but not quite always) by drinking a cup of coffee. But asking for coffee is an admission that you've drunk too much — and that costs you an increasing number of points.

If you've eaten at least half the pies on the table, you can pull the cracker. This creates so much excitement that you earn a bonus (which depends on the screen you're on) and the hostess provides you with a new table of more pies which are each worth more than the last lot.

At the same time your "cheer-

fulness" increases, and it may not be so easy to guide your hand the way you want it to go.

There's another problem too.

Greedy grabbing all over the table is definitely not allowed, so your hand can't go back over its past tracks. If it tries to, or if it bumps into the border, you lose points.

It's possible to get trapped in your own tracks. If this happens, or if you cut yourself off from the cracker, you have three chances of asking your hostess to set a new table. The number of opportunities left to do this is shown at the bottom left of the screen, headed "Extras". When you press "H" the hostess pulls the cracker for you and gives you a new table of more challenging pies.

Trying to drink two sherries or to eat two pies in succession is possible but not very good for you. In either case you lose a life, and when you lose five lives the game is over. If this happens, you lose 500 points for not knowing when you've had enough.

Sooner or later your coffees will run out.

Then it's only a matter of time before you become so sodden

YOU SO the CHR

How it works

1 array DIMensioned to hold values of objects plotted on screen
2-3 call initialisation and start
4-15 normal moves
16-31 abnormal moves
32-36 PRINT score or text on top line
37-38 detect key-press and beep
39-40 SAVE present positions of
41-53 find desired direction of travel
54-57 provide new screen if one is available and requested
58 call "I've had too much to drink" routine
59-73 provide coffee, empty cup, reduce effects of sherry and deduct penalty points
74-86 adjust player's movements according to influence of sherry
87-96 if player bumps into border or own track, beep and reduce
97-100 player can't grab cracker until he's eaten at least half the pies
101-106 move hand into a clear space and plot trail
107-125 add 1 to items consumed, remember previous and present item, move hand, decide what kind of trail to leave on next move. Increase sherry-count or score. PRINT new score
126 give obstacle-value to present position
127 call life-lost routine if item consumed is same as last item
129-136 life-lost routine: noise, flashing, removal of token
137-150 no-lives-left routine

noises, penalty, severe message
151-165 initialise variables
166-171 call initialisation sub-routines; point of entry depends on whether this is the first game or a new game
172-175 print cracker and give it a value
176 prevent pies or glasses landing on player's starting square
177-193 plot pies and glasses, with values. Print hand and initialise its coordinates
194-197 first screen displayed
198 instruction to generate "real" random numbers
199-210 define graphics characters
211-215 set up colours
216-233 PRINT frame for game screen
234-238 PRINT coffee-cups to show coffees left, and record highest print-position
239-243 PRINT hands to show lives left, and record lowest print position
244-251 give protective values to border
252-255 PRINT number of extra screens available
257-298 pull cracker, award bonus points, clear and renew array, alter relevant variables and set up new screen if hand has pulled cracker
299-308 solemn routine if player admits he's had enough to drink. Bonus points and noises
309-311 wait for key-press to play new game
312-322 set up new game, adjust high-score and make witty computer joke



must be polite at boss's Christmas party



- Variables**
- MEM(R,C) the array
 - F graphics character (hand)
 - C column coordinate
 - R row coordinate
 - PL initial print position (Text and score)
 - MS score or text for printing
 - K ASCII code for key pressed
 - S status of key press (same as before, different or none)
 - J general purpose variable for loops
 - P beep-pitch
 - V score for R
 - W score for C
 - EL counter for extra screens requested
 - EX original total for extra screens
 - COF total coffees
 - C MAX column to print new coffee-cup
 - SH total sheries
 - SC score
 - BS bonus points
 - Z total items consumed
 - TK graphics character to plot trail
 - N number of items to be plotted
 - D value of last item consumed
 - K value of present item consumed
 - LIVES lives in hand
 - IMAX column to print life token
 - S1,S2,S3,S4 steps by which player's resistance is graduated
 - REP flag to show a replay has been required
 - X,Y variables to read numeric DATA
 - NS variable for string DATA
 - AI increasing effect of sheries
 - D (at end of game) a delay counter
 - HSC high score

points try to get to a new screen before drinking coffee, because this will affect your condition on the next screen. Two or more coffees will have a longer lasting effect than one, but the more screens you survive the more valuable the pies are, so don't waste them on the early screens.

Try not to end up with a mass of coffees or "Extras" or lives left over. Sooner or later it's usually sensible to press P and take the credit.

At present my wife's high score is 18,600; mine is rather lower.

In early stages of the game it's worth going for the cracker when about half the screen is cleared, and then use your "Extras" with discretion. You can rest your hand underneath the cracker without penalty at any time before you've cleared the necessary number of pies.

You can start with a pie or a sherry—but you must remember the last thing you had when you go to a new screen, or else you'll lose a life.

Note: Since the generation of random numbers is not a process which produces real random numbers, it will be possible for players to compare performances directly by always BREAKing and RUNning after the first game. This will produce the same character to control, although his field of operation will be different. But this is a slow business.

Graphics: 152 & 153 holly, 144 berries, 136 & 137 pie and pie-crumbs, 128 & 129 full and empty glass, 120 & 121 full and empty cup, 112-115 hand, 105-108 parts of cracker

with sherry that you lose all control of your hand and start losing-points all over the place. There is a way out of this problem, so don't despair.

Press P (for "I've had too much to drink") and, after a short pause which allows you to reflect on the error of your ways, you're given 500 bonus points for honesty, and a chance to play a new game.

- Control keys:**
- Cursor keys (E,S,D,X) to move the hand. Left to itself it moves up the screen
 - C to ask for coffee (which is deliberately awkwardly placed)
 - H to go to a new screen by escaping from the present one
 - P to admit you can't go on

A few hints on tactics: Each new game gives you a character with different powers of resisting the sherry. When the sherry begins to take effect the hand will slow down, and then start moving with a will of its own. Its early moves are down and left.

Unless you're losing too many

- Hints on conversion**
- The array uses a lot of memory, so much less than 14K of user available memory will not make conversion possible unless the program is rebuilt with multi-statement lines (which the Texas does not support)
 - CALL CHAR(number, new-string) defines the ASCII coded character with the values in the string
 - CALL HCHAR(number, number, number,number) plots by row and column as ASCII coded character (a number of times) horizontally
 - CALL VCHAR is a vertical version of CALL HCHAR
 - CALL SOUND should be replaced with any appropriate noises
 - CALL KEY obtains the ASCII value of any key pressed in variable K
 - CALL CLEAR clears the screen
 - CALL COLOR sets up colours by character-set, foreground and background
 - This program sets up a black background, red glasses, yellow pies, a magenta hand, green holly and a cyan cracker

TI-99/4A CHRISTMAS PROGRAM

```

1 DIM MEM(24,32)
2 GOSUB 151
3 GOTO 37
4 F=115
5 C=C-1
6 RETURN
7 F=114
8 C=C+1
9 RETURN
10 F=113
11 R=R+1
12 RETURN
13 F=112
14 R=R-1
15 RETURN
16 F=113
17 R=R+1
18 C=C-1
19 RETURN
20 F=113
21 R=R+1
22 C=C+1
23 RETURN
24 F=112
25 R=R-1
26 C=C-1
27 RETURN
28 F=112
29 R=R-1
30 C=C+1
31 RETURN
32 CALL HCHAR(1,PL-32,LEN M$,+2
33 FOR J=1 TO LEN M$
34 CALL HCHAR(1,PL+ASC(ES) M$
,J,1))
35 NEXT J
36 RETURN
37 CALL KEY(3,K,S)
38 CALL SOUND(-75,P,0)
39 V=R
40 W=C
41 IF S=0 THEN 52
42 IF K<>93 THEN 45
43 K=1
44 GOTO 74
45 IF K<>68 THEN 48
46 K=2
47 GOTO 74
48 IF K<>88 THEN 51
49 K=3
50 GOTO 74
51 IF K<>69 THEN 54
52 K=4
53 GOTO 74
54 IF (K=72)*(FL<3) THEN 55 ELSE
58
55 FL=FL+1
56 CALL HCHAR(24,12,ASC(STR$(EX-
FL)
57 GOTO 268
58 IF I=90 THEN 299
59 IF (I=67)*(COF>0) THEN 60 ELSE
52
60 CALL HCHAR(1,CMA*-2,121)
61 COF=COF-1
62 FOR J=220 TO 110 STEP -10
63 CALL SOUND 50,J,0
64 NEXT J
65 CMA=CMA-2
66 IF INT(RND+15)+1=3 THEN 68
67 SH=SH-52
68 SC=SC-15
69 IF SC=1 THEN 71
70 SC=0
71 M$=STR$(S)
72 GOSUB 32
73 GOTO 37
74 IF SH=31 THEN 77
75 ON I+GOSUB 4,7,10,13
76 GOTO 37
77 IF SH=32 THEN 80
78 ON I+INT(RND+1) GOSUB 4,7,10,1
3,16
79 GOTO 37
80 IF SH=33 THEN 83
81 ON K+INT(RND+2) GOSUB 4,7,10,1
3,16,20
82 GOTO 37
83 IF SH=34 THEN 86
84 ON I+INT(RND+3) GOSUB 4,7,10,1
2,16,20,24
85 GOTO 37
86 ON K+INT(RND*4) GOSUB 4,7,10,1
3,16,20,24,28
87 IF MEM(R,C)>1 THEN 97
88 R=V
89 C=W
90 CALL SOUND(-100,2200,0)
91 SC=SC-50
92 IF SC>1 THEN 94
93 SC=0
94 M$=STR$(SC)
95 GOSUB 32
96 GOTO 37
97 IF (MEM(R,C)=2)*(Z<N) THEN 98
ELSE 101
98 R=V
99 C=W
100 GOTO 37
101 IF MEM(R,C)<>0 THEN 107
102 CALL HCHAR(V,W,TK)
103 CALL HCHAR(R,C,F)

```

TI-99/4A CHRISTMAS PROGRAM

```

104 TX=145
105 MEM[R,C]=1
106 GOTO 37
107 Z=Z+1
108 IF MEM[R,C]=Z+Z THEN Z
57
109 D=E
110 E=MEM[R,C]
111 CALL HCHAR 1,1,1,TX
112 CALL SOUND 25,1,2+MEM[R,C]
0.0
113 CALL HCHAR R,C,F
114 IF E=0 THEN 117
115 TX=129
116 GOTO 111
117 IF E=4 THEN 121
118 TX=129
119 SH=SH+1
120 GOTO 121
121 TX=145
122 IF MEM[R,C]=0 THEN 126
123 SC=SC+E
124 MB=STR# SC
125 SCDE --
126 MEM[R,C]=1
127 IF E=D THEN 114
128 GOTO 37
129 LIVES=LIVES-1
130 FOR I=1 TO 10
131 CALL SOUND 10,1,1,1,1,1,1,1,1,1
00.0
132 CALL SCREEN 12-1
133 NEXT I
134 CALL HCHAR 1,LMA,0,0
135 LMA=LMA+1
136 IF LIVES=0 THEN 37
137 FOR I=100 TO 110 STEP -10
138 CALL SOUND 1,1,0,1,1,1,1,1,1,1
139 NEXT I
140 CALL CLEAR
141 CALL SCREEN 7
142 SC=SC-50
143 PRINT "SO THAT'S IT . . . ::
. . . CHOKED ON A MINCE PIE!!"
144 PRINT "GREGG HAS BEATEN YOU
:"AND YOU'VE LOST 500 POINTS" : F
OR THE LIVESPACE"::
145 PRINT "OUR FINAL SCORE IS" :
SC:"POINTS"::". . . AND I HOPE 'O
U'RE" : "ACHAMED OF YOURSELF" :
146 PRINT "SOBER UP AND TRY TO D
O" : "BETTER NEXT TIME" :
147 FOR J=80 TO 110 STEP 10
148 CALL SOUND 75,J,0
149 NEXT J
150 GOTO 309
151 BS=50
152 CDF=7
153 FL=0
154 EX=3
155 LIVES=5
156 S1=INT(RND+4)+4
157 S2=INT(RND+5)+51
158 S3=INT(RND+6)+52
159 S4=INT(RND+7)+53
160 P=1250
161 PL=17
162 SC=0
163 SH=0
164 TX=145
165 N=10
166 IF RER=1 THEN 167
167 GOSUB 216
168 GOTO 170
169 GOSUB 194
170 GOSUB 172
171 RETURN
172 FOR J=1 TO 3
173 CALL HCHAR 13,15+J,103+.
174 MEM[10,15+J]=2
175 NEXT J
176 MEM[21,5]=1
177 FOR I=1 TO N
178 GOSUB 196
179 CALL HCHAR R,C,106
180 MEM[R,C]=3
181 GOSUB 190
182 CALL HCHAR R,C,128
183 MEM[R,C]=4
184 NEXT I
185 MEM[21,5]=0
186 CALL HCHAR 21,9,112
187 R=21
188 C=9
189 RETURN
190 R=INT(RND+21)+1
191 C=INT(RND+31)+9
192 IF MEM[R,C]=0 THEN 193
193 RETURN
194 CALL CLEAR
195 CALL COLOR(2,16,1
196 PRINT TAB 3 : "THE BOSS'S MA
JORITY" : TAB 3 : "*****"
*****" : TAB 5 : "SETTING UP NO
W" : TAB(5) : "*****" :
:
197 CALL SCREEN 8
198 RANDOMIZE
199 DATA 152,01030F0F3E3E78F8,15
3,30C0F0F07C1F,144,0000F333CC
CF020,145,0000180018,136,00007EF
FFF7E7E3C
200 DATA 137,000020A4000D200A,12
8,003E3E3E0808083E,129,0022223E0
808083E,120,003C3F3D3F3CBDF
201 DATA 121,002427252724BDFF,11
2,082AAAAAFC3C3838,113,1C1C7C7F5
555410,114,1C10FEF0FF303C

```


CHRISTMAS PROGRAM



```

302 CALL SCREEN(7)
303 SC=SC+500
304 PRINT "SO YOU ADMIT IT...": '
YOU'VE HAD ENOUGH TO DRINK": 'FO
R BEING SO HONEST YOU GET": "500
EXTRA POINTS": '
305 PRINT "SO YOUR FINAL SCORE I
S": SC: "POINTS": '": "WHY NOT SOBER
UP...": '...AND TRY AGAIN?": '
306 FOR J=1760 TO 110 STEP -110
307 CALL SOUND(150,J,0)
308 NEXT J
309 PRINT :: "ANY KEY TO PLAY AG
AIN": '
310 CALL KEY(0,K,S)
311 IF S=0 THEN 310
312 CALL SOUND(150,1280,0)
313 CALL CLEAR
314 IF SC<HSC THEN 316
315 HSC=SC
316 PRINT TAB(2); "I'M CLEARING T
HE TABLE": '": " (TOP SCORE SO F
AR=": HSC: ", "": '
317 REP=1
318 E=0
319 GOSUB 280
320 GOSUB 151
321 REP=0
322 GOTO 37
    
```

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Can you keep your head when all about you are losing theirs? If so, one of these games might be for you — but first, read our reviewers' ratings

Empire Dragon £6.95

Shards Software, 189 Eton Road, Ilford, Essex

Empire is a world wide conflict game, simple to operate and set up, in which the Dragon plays one power and you play the opposition power.

The aim is the usual megalomaniacal one of world domination, achieved by wiping the opposition off the face of the globe.

The game is fairly easy to set up with the powers taking turns to choose territory. Then you have to assign your armies, continent by continent, until all are deployed.

The maps are all high resolu-

tion and fairly accurate. The method of input is easy, though I can't say the instructions were very clear.

The fight begins. Victory means the chance to move armies and attack new targets, failure passes the attack to the other power.

This is a simple wargame simulation which should prove a gentle introduction, without too many variables to manipulate.

Good fun, and quite interesting, but do allow over 30 minutes for each game! **D.C.**

| | |
|-----------------|-----|
| instructions | 60% |
| playability | 80% |
| graphics | 90% |
| value for money | 70% |



Vampire Village 48K Spectrum £6.95

Terminal Software, 28 Church Lane, Prestwich, Manchester

If you thought being Mayor of Vladsdorf was going to be all beer and skittles then you are in for a rude shock, because fangs ain't what they used to be.

The environmental nuisance in the area happens to be a vampire who has moved into the ruined castle and now threatens your villagers' lives (besides which, I bet he hasn't paid his rates).

Your job is to allocate public funds to the foolhardy volunteers who step forward to try to trap the undead pest, and to direct their efforts from your post high in the hills overlooking Vladsdorf.

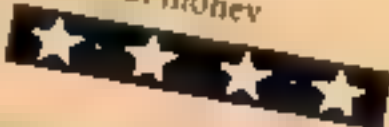
The screen shows a bird's eye view of the village and you move your volunteers around in search of food, equipment, lodgings and anti-vampire devices before setting across the river into vampire territory.

Don't forget to buy a canoe, or you'll drown!

The game is interesting to start with but I found the pace rather too slow and the graphics are only ordinary.

The game is smartly packed in a superior style library case and operating instructions are straightforward. **D.J.**

| | |
|-----------------|-----|
| instructions | 90% |
| playability | 75% |
| graphics | 75% |
| value for money | 70% |



Galaxy Conflict 32K BBC £14.75

Martech, 9 Dillingburgh Road, Eastbourne, East Sussex

This game is hard to describe. The nearest I can get is to call it a Star-trek type game for two players, who are fighting for control of a solar system.

You have the twin problems of attack and defence of your territory (various planets and mineral moons), and must also build, maintain and command the powerful Eoncrusers which are your main weapon against your foe.

You cannot leave a cruiser and hope that it will remain static, as the crew are using energy and supplies all the time.

This is not a game for the

younger player — there are so many variables to be thought about and planned for that good strategic planning is essential.

The game is well laid out and the screen, using Mode 7, is very clean and tidy. The game is likely to take a long time, therefore the 'Save Game' facility is available to allow other essential matters to intervene.

Unfortunately there is no solo play option nor is there a move limited game, both of which would have made the program that much easier to use. **D.C.**

| | |
|-----------------|-----|
| instructions | 70% |
| playability | 80% |
| graphics | 60% |
| value for money | 80% |



Ring of Power CBM 64 £9.95

Quicksilver, 13 Palmerston Rd, Southampton SO1 1LI

Ring Of Power is described on the inlay card as a text or full colour graphics adventure game. There are no instructions supplied — not even a vocabulary!

To enter the graphics mode you enter the command 'graphic' and 'text' to return to text mode. Although they may seem obvious, it took me quite a long time before I found these out by accident!

The graphics are fairly dull and straightforward. The scene is the same for all similar places, and not very impressive at that. As a text game I found it quite enjoyable.

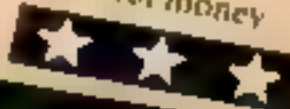
I would not advise any adventuring experts to buy it — they

would find it too easy. For a newcomer to adventures, or someone who finds most adventures difficult, though, this game would be ideal.

You play Ring Of Power on a set of different levels. When one level has been explored you move up to the next. Unfortunately you can't move back down a level to recover an object you need — this was the only thing (apart from the lack of instructions) that I found annoying.

The game consists mainly of exploring and solving the odd problem. There are no creatures out to kill you or traps to fall into. **K.J.**

| | |
|-----------------|-----|
| instructions | 0% |
| playability | 50% |
| graphics | 10% |
| value for money | 55% |



Jokers Wild Spectrum £9.99

Phoenix Software, Spangles House, 116 Marsh Road, Pinner

This is an absolute gem! An action/adventure game, with super graphics.

The twist in the concept lies in the action section, which is a plot-related maze game.

Master each one and gain vital clues to the adventure, and when you've mastered them all you gain the code which allows entry to the adventure. The action game is hard enough to keep you quiet for some time!

The adventure comes on a separate cassette with a non-graphics version for 16k owners on the other side. The plot is set in a funfair with a very evil air about

" Each location is pictured, the Big Top, the Ghost Train, the Hall of Mirrors and the Big Wheel, to name but a few.

I'm not going to give the plot away, but if it weren't for the Bearded Lady who's a master spy, the creeping Ghouls of the Ghost Train would have got me!

I suppose the standard by which graphics adventures are measured must be The Hobbit True, you can't speak to the characters in Jokers Wild, but it has that tantalising mixture of predictability and randomness so beloved of true adventure freaks. **D.M.**

| | |
|-----------------|------|
| instructions | 90% |
| playability | 95% |
| graphics | 95% |
| value for money | 100% |



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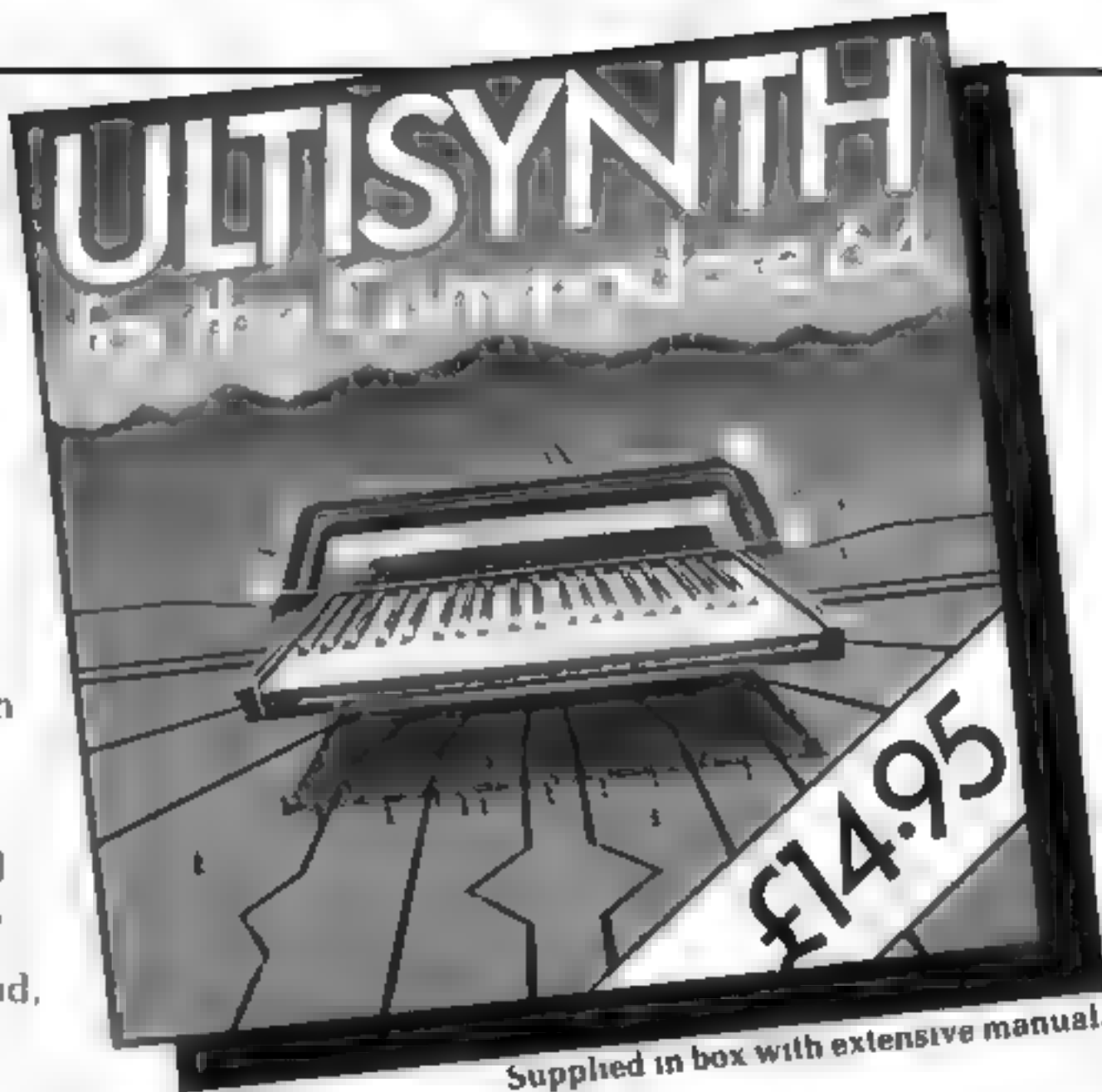
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Apathy that killed the TI

I was greatly dismayed to hear the news of Texas Instruments's withdrawal from the home computer market, and reading Stephen Shaw's letter in HCW 38 did little to light up the gloom.

Unlike many TI owners, I bought my machine fully aware of its limitation, with the belief that Texas would get their marketing act together, thus persuading more prospective micro purchasers to buy a TI-99/4A in order to make the computing press take more notice, software houses to write more software, with the final effect that hardware prices would drop.

Well, soon you'll be able to pick up a TI-99/4A for around £50; unfortunately I don't think anyone will benefit in the long run.

So, TI will honour servicing and repair commitments for the next year or so, that's fine, but anyone would expect as much. What worries me is that I'll never be able to get together the nice little home system that I once hoped to, because soon, the expansion box and card peripherals, never produced in large quantities, will all be snapped up by the more affluent Texas users, before people like me can save enough money.

Stephen Shaw tells us to take out a loan and buy while we can. Unfortunately, those of us who are unemployed (I include myself) are not regarded as good credit risks, for some reason which escapes me.

Seriously, the whole sorry affair leaves me angry. Angry at Texas' terrible marketing, angry at the apathy of TI owners, but I think I reserve my main ire for the computing press (exclude HCW).

I honestly believe that their cold-shouldering of the TI-99/4A is the overriding reason for its downfall, apathy breeds apathy.

I hope you print this, I'd be very interested to hear more views on the business from the many TI users who read your magazine.

Seg Gorham, Wakefield, West Yorks

The invisible guy

In HCW 35 you printed a program about Guy Fawkes, but lines 510 and 520 had a blank space in the quotes. This should have been a graphic "A" so that it could be redefined as a user defined graphic.

I expect this happened because a proper printer was

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used instead of the Sinclair silver paper one.

HCW is the best mag about, I always get it.

A. Whalley, Potlery Bar

More praise of Things

I was made redundant last June, and this had the effect of making my Spectrum, which has had hours of constant use.

Just for the record, my payoff barely made the hundreds — a week's wages in lieu. I therefore have to count the pennies, and computing mags come well below essentials.

I picked a copy of Home Computing Weekly purely on the strength of a reasonable Spectrum game listing for 38p. It turned out to be nearly a best buy, except for one thing — the reviewer who wrote about Halls of the Things (HCW 39) can't possibly be talking about the game we bought.

Out of the dozen or so games we have begged, borrowed or bought, it is the only one to stay on the computer for more than half an hour. It is the most addictive, highly-competitive and difficult all-action game I have ever had the pleasure of playing.

Up to now, I have played for eight or more hours a day (in between the job-hunting), and my personal best score stands at 630 points. This includes four hard-won rings and 59 monsters spread through three of the eight levels.

I don't think I am alone in liking Halls of the Things. It highlights all the good points of the Spectrum's graphics display, and believe me, at times the little man doesn't move half as fast as I'd like.

One of my friends has bought a Spectrum mainly to play Halls, and another is considering making a pact with a credit shark because his scores are so bad (he doesn't yet own a computer).

My sister-in-law recently made the mistake of buying a 16K Spectrum. Guess what she wants to upgrade it for?

The only things missing from Halls are the screams of dying monsters, or the hiss of flying fireballs as they crisp a "thing". The basic Spectrum is not capable of producing those sounds, so better not try. Leave the silly tunes to the squashed frogs, and play Halls of the Things in silence.

Bill Fox, Matlock, Derbyshire

This is not the first letter we've published in defence of Halls of the Things, and we can only reiterate what our reviewer said last time — our reviews aren't gospel, they're just a personal opinion, though usually a pretty well-informed one. If you disagree with something a reviewer has said, we're always pleased to hear your comments. Sometimes we'll even print them, too!

K-tel: two is better value

K-tel's two-on-one tape was reviewed as two separate products — It's Only Rock 'n' Roll and Tomb of Dracula — in last week's issue.

This was because the review copy arrived without a cassette insert, similar to review versions often sent to magazines, and without paperwork explaining that it was a dual-game tape.

Our reviewer, P.C., says that his opinions of the two games remain the same but points out that, of course, a single tape with two games for £6.95 is much better value for money.

May we repeat our plea to software houses: Send us only tapes in the form in which your customers will buy them.

Our reviewers can only comment on what they receive.

And one company's products will usually be divided among several reviewers. This is impossible if there are several programs on one tape.

Home Computing Weekly

One for the road

I typed Robert King's 3D Road Game (HCW 34) into my VIC-20 and was immediately impressed by the standard of the graphics. I played it for hours. Keep up the good work, HCW!

David Warby, Bognor Regis, West Sussex

Shut the box and keep them happy

How it works

1-90 initialise variables and ask if instructions required
 100-110 initialise human's go
 120 check whether dice can be added together
 130 check whether either of numbers thrown is still uncovered
 140-150 cover number(s) thrown
 210-230 give player option to add dice
 240 cover number obtained by adding dice together
 260 pause before next go
 500-550 end human's go, calculate score and transfer play to computer. Line 540 checks for end of game
 1000-1550 as for human's go
 2000-2030 end of game and replay routine
 8000-8070 display rules
 9000-9040 compute score at end of go
 9500-9590 roll dice
 9800-9860 check to see if all numbers covered and end of game if so
 9900-9940 reprint box. This is done after each roll of the dice

Children will enjoy playing this computerised version of an old favourite, adapted for the Dragon by James Greenall

Main variables

ME computer's score
 YOU player's score
 AS uncovered numbers. Elements of the string corresponding to covered numbers are set to zero
 RS general response to input prompts
 PS current player (either ME (computer) or YOU (human))
 D1, D2 value of dice rolls for dice 1 and dice 2 respectively
 X general purpose FOR/NEXT counter
 COUNT total of uncovered numbers as computed at the end of each go
 L\$, L2\$ lines of box outline composed of block graphics characters

The purpose of each section of the program, as well as being explained in the How it Works section, is also outlined in REM statements in the listing.

The main focus of the programming algorithm for the game is the use of AS to store the value of each "box" and as the basis of printing the boxes.

Shut the Box is based on an old board game for two or more players. My version is for two players only, and will probably appeal to children in the seven to 12 age range.

All the rules of the game are given in the program.

```

1 REM SHUT THE BOX
2 REM (C)1983 JAMES GREENALL
10 ME=0:YOU=0:AS="123456789":CLS
20 PRINT@10,"SHUT THE BOX":PRINT@66,"DO YOU WANT THE RULES?":INPUT RS
30 IF RS="Y" THEN GOSUB 8000
40 CLS
50 GOSUB 9500
90 IF RND(10)>5 THEN 1000
100 REM HUMAN'S GO
105 PRINT@0,"YOUR GO":
107 PS="YOU"
108 PRINT@416,"PRESS ANY KEY TO ROLL THE DICE"
"
109 RS=INKEY$:IF RS="" THEN 109
110 PRINT@416,""
115 GOSUB 9500
120 IF D1+D2(10 AND MID$(AS,D1+D2,1)="" THEN 200
130 IF MID$(AS,D1,1)="" AND MID$(AS,D2,1)="" THEN 500
140 IF MID$(AS,D1,1)="" THEN MID$(AS,D1,1)="0"
150 IF MID$(AS,D2,1)="" THEN MID$(AS,D2,1)="0"
160 GOTO 250
200 REM AGGREGATE DICE
    
```

```

210 PRINT@416,"":INPUT "DO YOU WISH TO ADD THE DICE (Y/N)":RS
230 IF RS="" THEN 130
240 MID$(AS,D1+D2,1)="0"
250 GOSUB 9500
260 FOR X=1 TO 2000:NEXT
270 GOTO 100
500 REM END OF HUMAN'S GO
510 GOSUB 9000
520 YOU=YOU+COUNT
530 PRINT@354,"ME:",ME:PRINT@375,"YOU:":YOU
540 IF YOU=45 THEN GOTO 2000
550 GOTO 1000
1000 REM COMPUTERS GO
1005 PRINT@0,"MY GO ":
1007 PS="I"
1010 GOSUB 9500
1020 IF 6<(D1+D2 AND 10>D1+D2 AND MID$(AS,D1+D2,1)="" THEN 1100
1025 IF MID$(AS,D1,1)="" AND MID$(AS,D2,1)="" THEN 1500
1030 IF MID$(AS,D1,1)="" THEN MID$(AS,D1,1)="0"
1040 IF MID$(AS,D2,1)="" THEN MID$(AS,D2,1)="0"
1050 GOTO 1120
1100 REM AGGREGATE DICE
1110 MID$(AS,D1+D2,1)="0"
1120 GOSUB 9500
1130 FOR X=1 TO 2000:NEXT
1140 GOTO 1000
1500 REM END OF COMPUTER'S GO
1510 GOSUB 9000
1520 ME=ME+COUNT

1530 PRINT@354,"ME:",ME:PRINT@375,"YOU:":YOU
1540 IF ME=45 THEN 2000
1550 GOTO 100
2000 REM LOSE ROUTINE
2010 PRINT@352,"SCORE GREATER THAN 45:":PS:" LOST."
"
2020 PRINT:PRINT"PRESS ANY KEY TO PLAY AGAIN"
    
```

```

2030 RS=INKEY$:IF RS="" THEN 2030 ELSE RUN
8000 REM RULES
8010 PRINT@10,"SHUT THE BOX"
8020 PRINT@66,"SHUT THE BOX IS AN OLD BOARD GAME INVOLVING DICE. THE BOARD CONSISTS OF A GRID OF NINE NUMBERS. THE AIM OF THE GAME IS TO COVER THE NUMBERS ON THE BOARD WITH COINS (O) BY THROWING THE APPROPRIATE NUMBERSWITH":
8021 PRINT " THE DICE. THERE ARE TWO DICE AND THE VALUES THROWN MAY BE TAKEN SEPARATELY OR ADDED TOGETHER."
8025 PRINT:PRINT"PRESS ANY KEY TO CONTINUE...."
8026 RS=INKEY$:IF RS="" THEN 8026
8030 CLS:PRINT@2,"A PLAYER'S GO CONTINUES UNTIL HE IS UNABLE TO COVER ANY NUMBERS WITH ONE THROWN OF THE DICE. AT THIS POINT THE VALUE OF THE UNCOVERED NUMBERS IS ADDED TO THE PLAYER'S SCORE. IF THIS BRINGS HIS SCORE TO 45 OR OVER":
8031 PRINT " THE PLAYER MUST RETIRE." :PRINT TAB(2);"THE WINNER IS THE PLAYER WHO COVERS THE LAST NUMBER":PRINT:PRINT"PRESS ANY KEY TO CONTINUE...."
8060 RS=INKEY$:IF RS="" THEN 8060
8070 RETURN
9000 REM COMPUTE SCORE
9005 COUNT=0
9010 FOR X=1 TO 9
9020 COUNT=COUNT+VAL(MID$(AS,X,1))
9030 NEXT
9040 RETURN
9499 STOP
9500 REM DICE THROW
9505 FOR X=0 TO RND(30)+1
9520 D1=RND(6)
9530 PRINT@462,D1
9535 SOUND X*5+B9,4
9540 NEXT
9550 FOR X=0 TO RND(30)
9560 D2=RND(6)
9570 PRINT@464,D2
9575 SOUND B9+5*X,4
9580 NEXT
9590 RETURN
9800 REM CHECK FOR WIN
    
```

Hints on conversion

The only parts of the program which might present conversion problems are the string slicing function (MID\$), which is standard to Microsoft Basic, and the block graphics character codes used in drawing the box (these will vary from machine to machine). However, the game can be played just as well without the box outline being drawn

DRAGON-32 PROGRAM

```

9810 FOR X= 1 TO 9
9820 IF MID$(A$,X,1) <> "0" THEN RETURN
9830 NEXT
9840 PRINT@384,"GAME OVER. ";P$;" WON."
9850 PRINT:PRINT"PRESS ANY KEY TO PLAY AGAIN"
9860 R$=INKEY$:IF R$="" THEN 9860 ELSE RUN
9900 REM PRINT BOX
9905 L$=CHR$(129)+CHR$(131)+CHR$(130)+CHR$(129)+CHR$(131)+CHR$(130)+CHR$(129)+CHR$(131)+CHR$(130)
9906 PRINT@43,L$
9910 PRINT@75,CHR$(133);MID$(A$,1,1);CHR$(138);CHR$(133);MID$(A$,4,1);CHR$(138);CHR$(133);MID$(A$,5,1);CHR$(138)
9915 L2$=CHR$(132)+CHR$(140)+CHR$(136)+CHR$(132)+CHR$(140)+CHR$(136)+CHR$(132)+CHR$(140)+CHR$(136):PRINT@107,L2$
9920 PRINT@139,L$:PRINT@171,CHR$(133);MID$(A$,4,1);CHR$(138);CHR$(133);MID$(A$,5,1);CHR$(138);CHR$(133);MID$(A$,6,1);CHR$(138)
9925 PRINT@203,L2$:PRINT@235,L$:PRINT@267,CHR$(133);MID$(A$,7,1);CHR$(138);CHR$(133);MID$(A$,8,1);CHR$(138);CHR$(133);MID$(A$,9,1);CHR$(138)
9930 PRINT@299,L2$
9935 GOSUB 9800
9940 RETURN
    
```

Micro Tip

VIC-20

Any key saves time

This program will save you time while entering Hex code to your VIC.

If you make a mistake, you would normally DELETE the character, but that means feeling for a single small key. Using this program, if you make a mistake all you have to do is press any key but space and the program sends you back to enter the correct value.

The IF statement in line 160 just prints an extra line between, in this case, blocks of 10. It is a very simple matter to alter this to any size of block that you require, by altering the two 10s.

Line 0 sets screen colour and disables auto-repeat on the space bar, for safety.

As for the routines at lines 200 and 300 on, I have left these off as (a) so many programs using Hex in large quantities often set their own rules for these and (b) everyone has their own favourite method of putting data to tape. Mine is via a monitor.

To show how much time this routine saves, I entered over 3700 HEX codes in just over one hour using the above. That was with just one hand — the other was holding a ruler to the HEX codings!

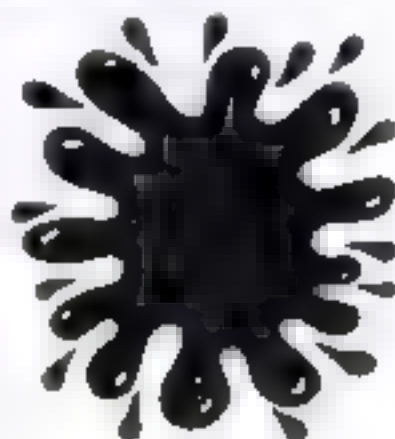
```

0 POKE 36879,27 : POKE 650,255
10 PRINT "(CLS)(CD)(CD)(5CR) DR HEX LOADER"
20 PRINT "(CD)(CR)(BLK) 1 (GRN) ENTER CODE"
30 PRINT "(CD)(CR)(BLK) 2 (GRN) SAVE CODE"
40 PRINT "(CD)(CR)(BLK) 3 (GRN) LOAD CODE":
   POKE 198,0
50 GETAS:IF AS>"3" OR AS<"1" THEN 50
60 A=VAL(AS):ON A GOTO 100,200,300
100 PRINT "(CLS)(CD)(CD)ENTER START
   INPUT SL:PRINT "(CLS)(CD)(CD)"
110 PRINT "(BLK)",SL," (BLUE)(CR)(CR), ZS "
120 GETAS:IF AS="" THEN 120
125 PRINT AS:ZS=ZS+AS:IF AS="(F7)" THEN RUN
130 GETAS:IF AS="" THEN 130
135 PRINT AS:ZS=ZS+AS
140 GETAS:IF AS="" THEN 140
145 IF AS<>CHR$(32) THEN 110
150 A=ASC(ZS)-48:B=ASC(RIGHTS(ZS),1)-48:
   N=B+7*(B>9)+16*(A+7*(A>9)):IF N<0 OR
   N>255 THEN 110
160 POKE SL,N:SL=SL+1:IF SL/10=INT(SL/10)
   THEN PRINT
170 GOTO 110
200 REM YOUR NORMAL SAVE TO TAPE CODE
   ROUTINE
300 REM YOUR NORMAL LOAD FROM TAPE CODE
   ROUTINE
    
```

David Shepherdson

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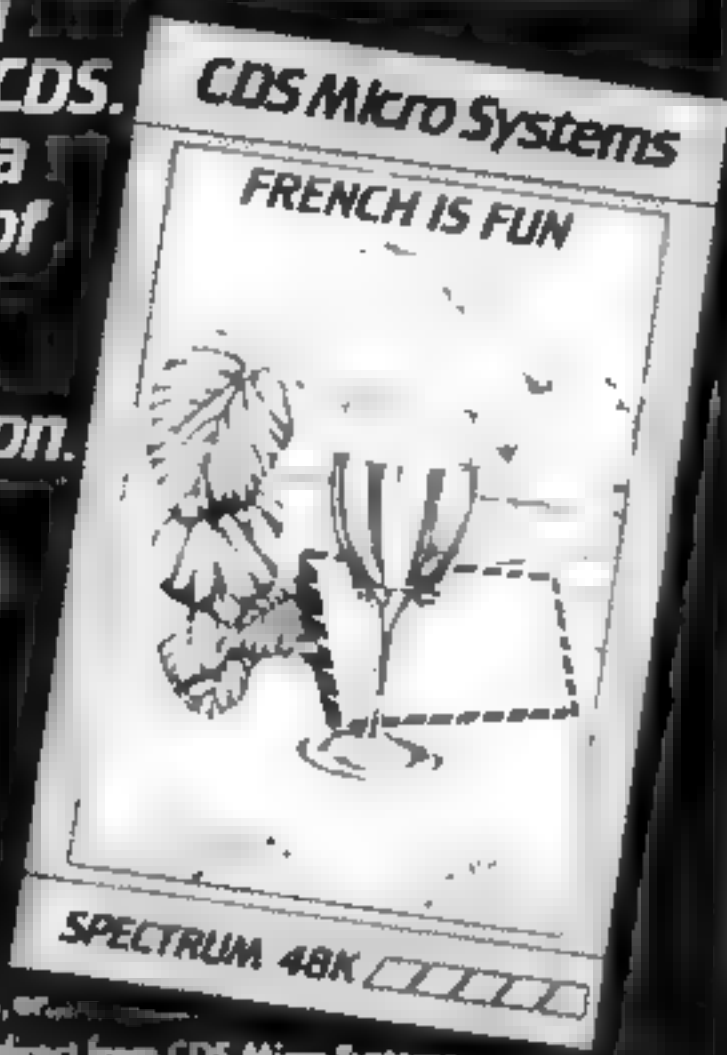
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Going by the board

Board games are traditional family entertainment at Christmas, but these games break with tradition — you can play them on your micro

Reversi 48K Spectrum £4.50

Byteware, Unit 25, Handyside Arcade, Newcastle

You play Reversi on a board similar to that of draughts or chess

Moves are made by placing a counter on a vacant square next to an opponent's piece — the idea being to have as many counters as possible showing your colour when the game ends.

So you must "reverse" your opponent's pieces — your opponent being the computer. In this version you move by entering the row number then the column — the board is numbered to help you. The computer then

acts on the move, and if you try anything illegal it will tell you to re-enter the move.

There are two ways to play. In one you can take your time to move. In the other, you have to make your move in four seconds or lose your go.

Be extremely careful when pressing keys to follow instructions. It's very easy to clear the program and end up loading it again.

As yet another computer version of a popular board game, this one should have been a lot better.

In short, nothing to get excited about

| | |
|-----------------|------|
| instructions | 100% |
| playability | 60% |
| graphics | 60% |
| value for money | 40% |



C. McI.

Advance TI-99/4A £9

Stainless Software, 10 Arstone Road, Stockport, Cheshire SK4 5AF

Advance is a board game in which up to two players and the computer compete against each other.

A 7x10 board is drawn on the screen, consisting of different coloured squares.

The object of the game is to score a set number of points (you choose this number at the start of the game) by moving your marker up the board.

If you land on an orange square, and you have got enough points, you can buy it. This means that if another player lands on your square he must give you some of his points. The number of points varies from zero to 15.

If you land on a yellow square your score will be either decreased or increased by a random number less than five.

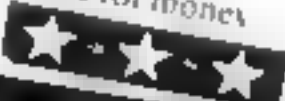
Purple squares are very nasty. If you land on one, you lose all your points.

Another way to increase your score is to move off the top of the screen. If this happens, you will reappear at the bottom of the screen and gain 10 points.

I found that the game soon ceased to hold my attention, as the computer took such a long time to move.

Overall, this is not a bad program, but in my opinion it lacks lasting appeal.

| | |
|-----------------|-----|
| instructions | 80% |
| playability | 50% |
| graphics | 65% |
| value for money | 50% |



J.J.

Dragon Chess Dragon 32 £9.95

Oasis, Lower North Street, Cheddar, Somerset

This is a well designed screen version of the game of chess with only very minor drawbacks. It's a machine code program that loads quickly and reliably, offering six levels of difficulty.

For me the winning feature was the on-screen menu which allowed so many options: you could get advice on your next move, change positions, set up problems, change level of play, take your move back, save and load games to tape, list your moves and have them printed. Even this list isn't exhaustive!

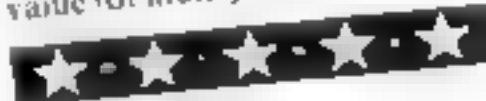
It was the sort of program that rekindled an interest in a classic game.

A small problem was the choice of colour mode, which produced one or two fuzzy pieces on the 'black' side. And my review copy didn't have any instructions, so I had to learn by trial and error that the M key enabled the cursor-driven menu.

Apart from these trifling matters I thought this was an excellent version of the game. Well worth buying.

M.P.

| | |
|-----------------|-----|
| instructions | 90% |
| playability | 90% |
| graphics | 80% |
| value for money | 90% |



Conflict 32K BBC £14.75

Martech, 9 Dillingburgh Road Eastbourne, East Sussex

The use of a computer to moderate war games has been with us for a long time now but usually the machine takes over completely and the use of boards, counters etc is not required.

This game is different in that it comes with a playing board, counters and record sheets.

The idea is to march your army into the enemy city and you have to be a master of all trades to do so.

There is not only the command of the forces, but also the investment of your reserves on the metal exchanges, piracy and exploration, with their resulting profits or losses, to worry you too.

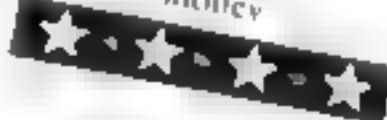
So I cannot really see this as a family game, as the rules and situations are far from simple and not always very well explained.

It is a two player game with no practice or computer opponent option, although discussion by more than one player could help your enjoyment.

If you have experience of war gaming and an interest in computers then this is probably for you. It would also be a good introduction to computer moderated games.

D.C.

| | |
|-----------------|------|
| instructions | 100% |
| playability | 70% |
| graphics | 60% |
| value for money | 80% |



Othello TI-99/4A £4.95

Timeless Software, 3 Bridgend, Fauldhouse, West Lothian

Othello (alias Reversi) has been around for a long time, but the great advantage of the computer version is that you have an opponent who doesn't gloat when you lose!

Actually, this version can be played by two players or one player against the computer. Also available is a demo mode to explain the game.

When you choose to play against the computer you also select skill level from one to five — a chance to nobble the opposition!

At the easiest level the machine will use the first legal move it finds, while at the higher levels all possible moves are evaluated and

your reply considered too. Moves are easily made by use of a flashing cursor which also indicates whose turn it is by its colour.

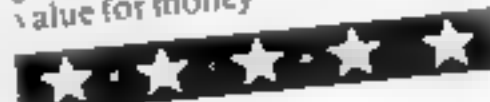
Response is rapid at easy level, a bit slower in the higher levels but brisk enough to remain interesting. Score is updated after each move. At the end of each game a play again option is offered.

Instructions are given on screen if required and a booklet gives full rules of the game.

I enjoyed playing this game and recommend it as ideally suited to the TI machine.

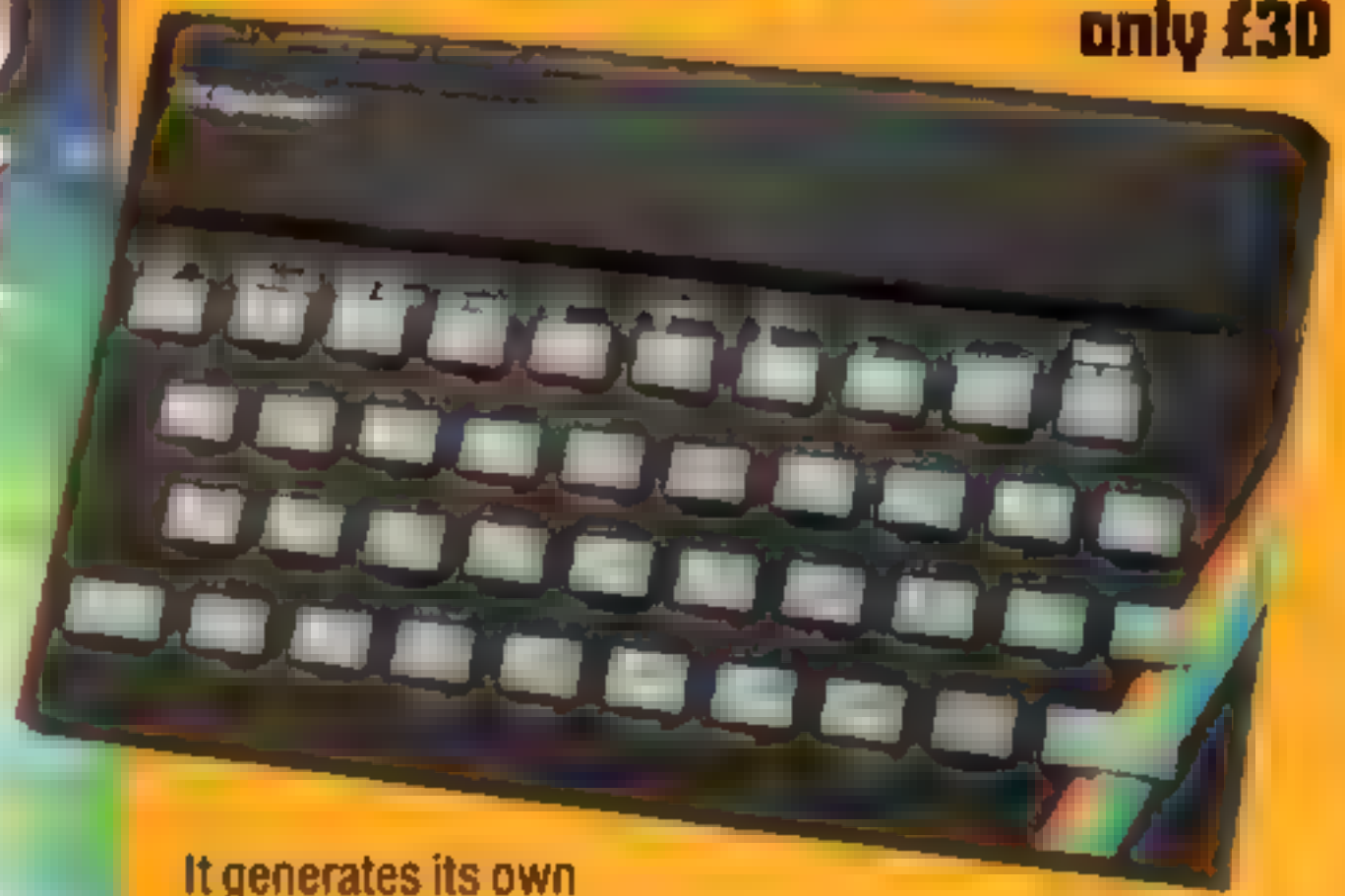
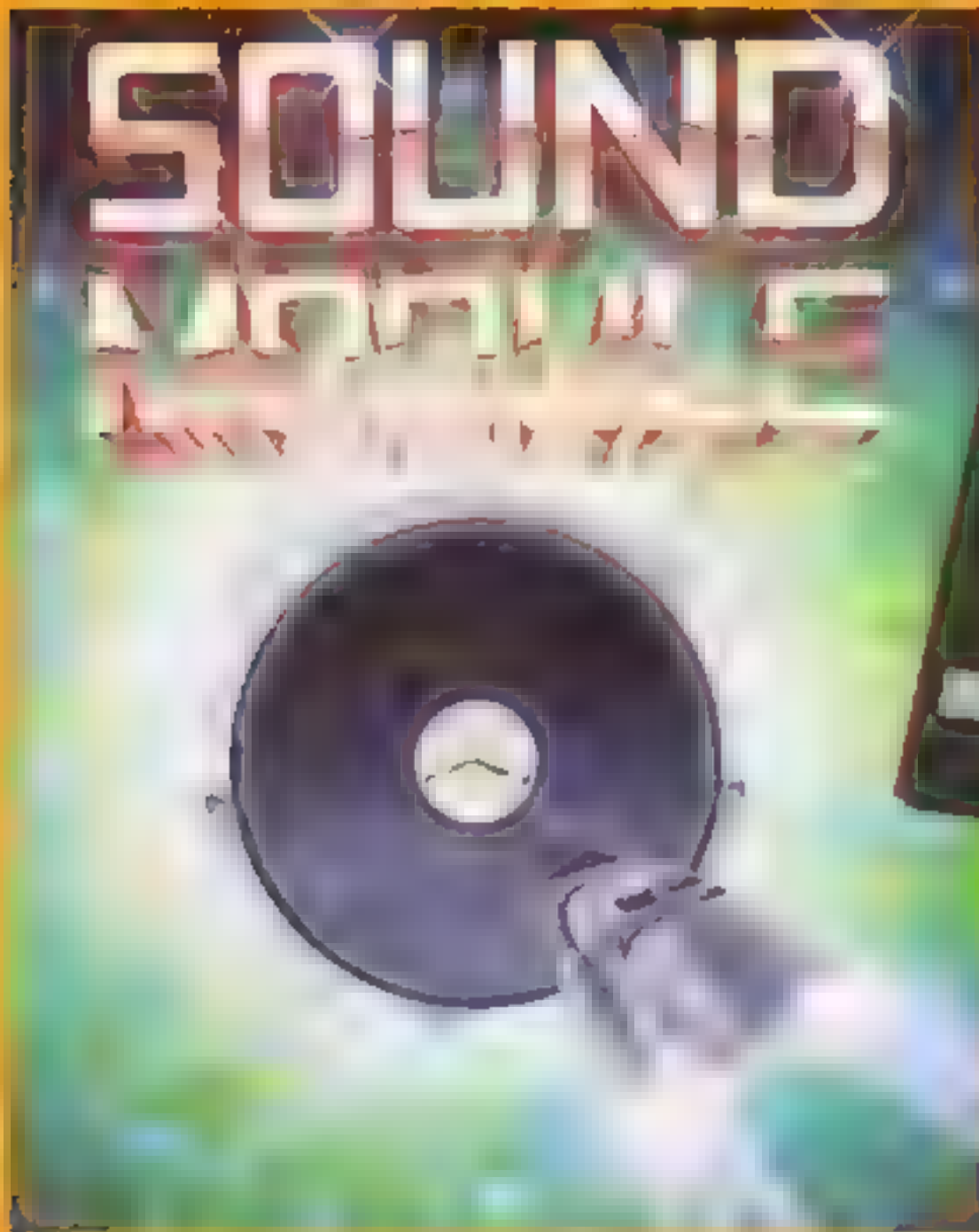
C.B.

| | |
|-----------------|------|
| instructions | 100% |
| playability | 95% |
| graphics | 90% |
| value for money | 100% |



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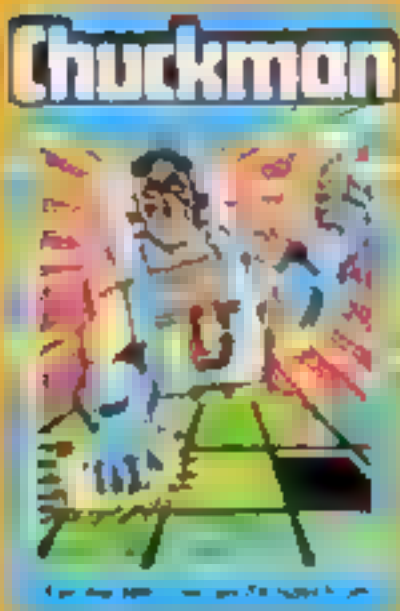
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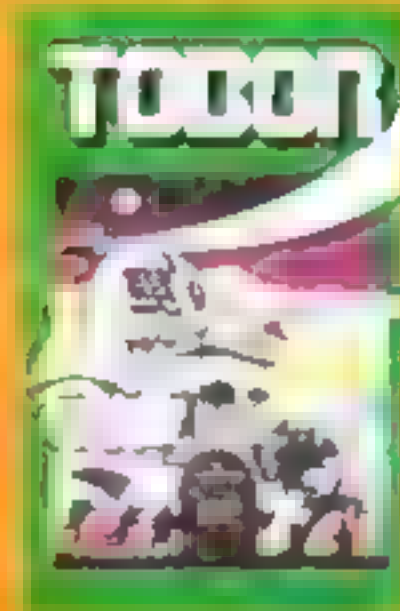
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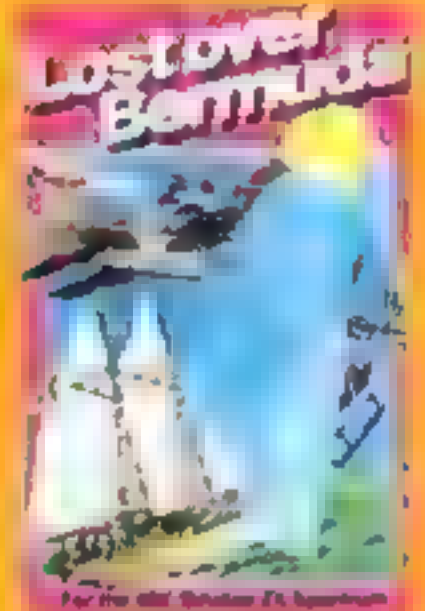
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VIC-20 PROGRAM

Here's a great family game that defies all the laws of gravity.

I have made good use of the unexpanded VIC-20 by writing Floating Four as a two-part program.

Part one sets up the 60 or so graphics and automatically LOADs the second part. The graphics are quite effective and could easily be converted for other programs.

Hints on conversion

For use without joystick, simply make these changes

```
21 P = PEEK(197)
22 IF P = 32 THEN 25
23 IF P = 64 THEN FORT = 1
   TO20.NEXT GOTO 12
```

Now both players use the keyboard

To convert the program to another micro would require a lot of time and patience. The program consists almost totally of direct POKEs to animate the screen and make sounds.

Bearing in mind that the size of the VIC screen is 22 by 23 characters, the POKEs are as follows

7168 to 7679 store hi-res graphics
7680 to 8185 screen char locations
Add 30720 to character locations to get screen colour locations.

646 changes char colour
36878 volume (15 is max)
36879 screen and border colour (8 is black)
36874 to 36877 voices
36869,255 hi-res mode

The control characters are explained at the beginning of the listing

The object of Floating Four is to connect a line of four counters in a straight line — vertically, horizontally or diagonally.

Floating Four is a two-player game in which one player uses the joystick and the second uses the

Will you float to VICTORY?

keyboard. But only three changes are needed to make it a keyboard-only game — see the Hints on Conversion section.

To move the counter anti-clockwise around the board, either hit any key or move the joystick.

Once in the desired position, the counter may be dropped either by pressing the space bar or the fire button. The counter will fall in the direction indicated at the bottom of the screen. It will

always fall away from the side from which it was dropped and will continue to fall until it meets another counter or the edge of the board.

Scoring and checking is done by the VIC, so it's easy to play.

All wins are displayed and the winner always starts the next game. If there is no winner then a random player begins.

If no-one can move and a stalemate occurs, keep on trying to

Floating Four — listing one. Type in this listing first, SAVE it (for safety) and then type NEW before typing in the second listing

```

0 REM #1 TITLE "FLOATING FOUR"
1 REM #1 BY "G. B. HARRIS"
2 REM #1 DATE "1983"
3 REM #1 VERSION "1.0"
4 REM #1 COMMENT "NORMAL TEXT IN HI-RES MODE"
5 REM #1 KEY "TO MOVE"
6 REM #1 JOY "JOYSTICK"
7 REM #1 SOUND "SOUND"
8 REM #1 SCREEN "SCREEN"
9 REM #1 BOARD "BOARD"
10 REM #1 COUNTER "COUNTER"
11 REM #1 SCORE "SCORE"
12 REM #1 WIN "WIN"
13 REM #1 LOSE "LOSE"
14 REM #1 DRAW "DRAW"
15 REM #1 STALEMATE "STALEMATE"
16 REM #1 GAME "GAME"
17 REM #1 END "END"
18 REM #1 START "START"
19 REM #1 STOP "STOP"
20 REM #1 PAUSE "PAUSE"
21 REM #1 RESUME "RESUME"
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48K SPECTRUM OWNERS *Read This From* ...LET'S GET DOWN TO BUSINESS...

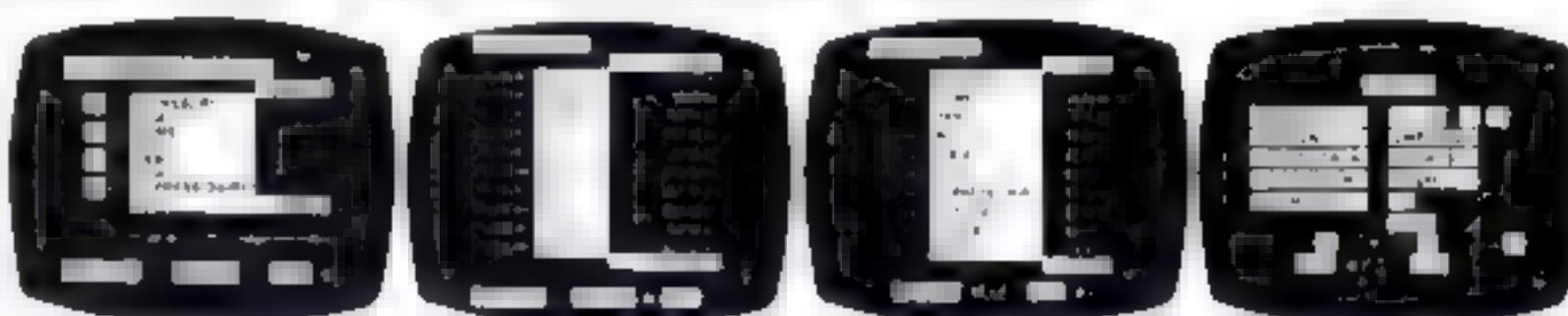


★ ★ ★ FINANCE MANAGER ★ ★ ★

FINANCE MANAGER is a powerful, flexible and fast MENU DRIVEN general purpose program carefully designed to handle up to 255 separate accounts for domestic and business accounting applications. The magic of MACHINE CODE has enabled us to produce the very latest "on the page" presentation which lets you enter and edit data naturally, as if with a pencil and paper.

These screens are just a sample to show the style of the program:

But that's not all, not by a long way. This program automatically raises a corresponding debit or credit for every entry, and will even open a new account if an entry features an unrecorded account name



Accounts can be **MERGED, DELETED, ANALYSED, MARKED** as priority, **RENAMED, EDITED** and **SCROLLED**. Transactions can be **RECONCILED, AMENDED, DELETED, PRINTED, DESCRIBED** for analysis and **RENAMED**. Standing orders can be **APPLIED, REMOVED, DESCRIBED, AMENDED, DELETED** and even **DUMMIED** for planning purposes. Other features include **DATE CHANGE, RUNNING TOTALS, 2 KEYBOARD MODES, PRINT PAGE/LINE/BLOCK/FROM END/FROM START/FROM DATE** etc., **LIST BALANCES, FIELD ERASE/INSERT/DELETE, EXIT TO BASIC**. You may not want all these features but they are there just in case.

★ ★ ★ ADDRESS MANAGER ★ ★ ★

ADDRESS MANAGER utilises the same "on the page" presentation as **FINANCE MANAGER** and offers Spectrum owners a professional standard address filing, indexing and retrieval system. Below are examples of the screen presentations.

ADDRESS MANAGER has been carefully constructed to provide the user with a tool that is extremely friendly and easy to use, the speed and presentation of this program are second to none.



ADDRESS MANAGER features **MULTIPLE INDEXING** via our 3 way 3 character index, an ability to store over 400 full names and addresses or 1500 individual names/titles.

USES include storing and updating names, addresses and phone numbers, printing out Xmas card lists, etc, mail order work, customer classification by type size (doctors have used this program to catalogue patients by treatment).

★ ★ ★ 80 COLUMN-PLUS 80' VERSIONS ★ ★ ★

80 column versions of both these programs are available. These work in conjunction with the Kempston Centronics Interface and Centronics Printer. Write to us for a quotation for the software, the interface and the latest high performance Japanese Dot Matrix Printer — you will find our prices very competitive.

VISIT YOUR LOCAL SOFTWARE STORE NOW AND ASK FOR FINANCE MANGER AND ADDRESS MANAGER BY NAME —

also available from selected branches of WH SMITH, BOOTS and MENZIES



SOFTWARE ★ ★ ★ SIMPLY THE BEST ★ ★ ★

If you experience difficulty obtaining your copies of these programs send a cheque or postal order for £8.95 (£19.95 for PLUS 80 versions) or telephone your details to (0753 888866):

Oxford Computer Publishing Ltd.
4 HIGH STREET, CHALFONT ST PETER, BUCKS SL9 9QB

MR CHIP SOFTWARE

SPECTRUM GAMES

SPECTRUM DARTS (48K)

Five games of darts for 1-5 players, 501, Cricket, Killer, Round the board, Noughts and Crosses, four levels of play per game, take on the computer or friends at these games of skill and judgement. £5.50

WHEELER DEALER

As for the Commodore 64, but now available for the 48K Spectrum, Texas T199/4A and Dragon. £5.50

VIC-20 GAMES AND UTILITIES

JACKPOT

This is it, the ultimate Fruit Machine for the VIC with nudge, hold and respin 100% machine code. "Overall Jackpot is a beautifully written simulation giving superb graphics, animation and use of colour. In fact, this program makes Commodore's Fruit Machine cartridge look unbelievably cheap and nasty." Home Computing Weekly No. 20 19/7/83. £5.50

KWAZY KWAKS

Accuracy and speed are required for this Shooting Gallery, superb use of colour and graphics in this new and challenging game from the author of Jackpot. 100% machine code, joystick or keyboard control £5.50

PACMANIA

Choose your own game from the following options — difficulty 1-3 speed 1-3, size of maze 1-3, visible or invisible maze, still or moving power pills, define your own key controls, any combination, if this is your type of game, then this is the one for you, for the 3K expand VIC. £5.50

BUGSY (Joystick Only)

This is a Minefield with a difference as you step on the stones whilst collecting purple boxes which give you both time and points, they disappear from beneath your feet. DO NOT DESPAIR! "BUGSY" will randomly replace the stones but avoid bumping into him or its sudden death! An original compulsive and challenging game. £5.50

MINI-ROULETTE — PONTOON — HI-LOW

Three great games of chance for the VIC, try to beat the computer, hours of fun, full colour, sound effects and tunes £5.50

DATABASE — create your own files and records on tape £7.50

SUPER BANK MANAGER — A full feature version any memory size, but needs 3K expansion. £7.50

COMMODORE 64 GAMES AND UTILITIES

JACKPOT 64

At last its here, specially written for the 64, by the author of "JACKPOT" the ultimate Fruit Machine program for the VIC £5.50
(available from 1st Nov)

WESTMINSTER

A game for up to four players, can you lead the party of your choice and win the general election, you tour the 60 constituencies (seats) buying votes, when you can, (just like the real thing), this must be one of the first board type games specially written for the computer. Why play on your own, have fun with your family and friends playing WESTMINSTER £5.50

RED ALERT

A game for 1-4 players, with sound and graphics. Make money in casinos, commit robbery, hide from the police, hire secret agents, (some of whom can be treacherous), negotiate for weapons, find and attack the secret rocket base to launch the missile, and watch the havoc and destruction caused. There's no turning back from "RED ALERT" £5.50

WHEELER DEALER

A game for two to twenty players, become a tycoon of the motor trade, you must obtain gearboxes, tyres and engines to produce cars for sale. Form syndicates, buy and exchange parts, buy dealerships, but be careful, you may become bankrupt and have to liquidate, find out what you are made of, have you got what it takes to become a WHEELER DEALER. £5.50

LUNAR RESCUE

Our new version, avoid the asteroid belt, to rescue the stranded scientists, then fight your way back to the mother ship, fast reactions are required to safely land and dock your lunar module. £5.50

PURCHASE LEDGER

Easy to use, single entry, handles 400 invoices per month, Gross/Nett purchases, V.A.T. £14.50
Disk Version £17.00
(available from 1st Nov)

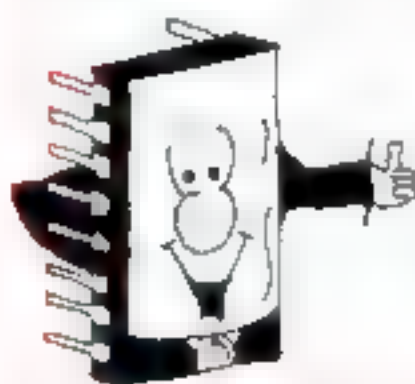
SALES LEDGER — As Above £14.50
Disk Version £17.00

CHIPMON — Contains a one- or two- pass Assembler, Disassembler and Monitor. A programming aid for the development of machine code programs and routines on the CBM 64 £12.50

BANK MANAGER — As our Super Bank Manager, but for the 64 £7.50
Now available on disc with added facilities £10.00

Full documentation with all utility programs.

Other software available for the VIC and Commodore 64, send for free brochure, including RABBIT SOFTWARE at £5.50 each. Send Cheques/PO's to:



MR CHIP SOFTWARE

Dept HCW, 1 NEVILLE PLACE, LLANDUDNO, GWYNEDD LL30 3BL.

Tel: 0492 49747

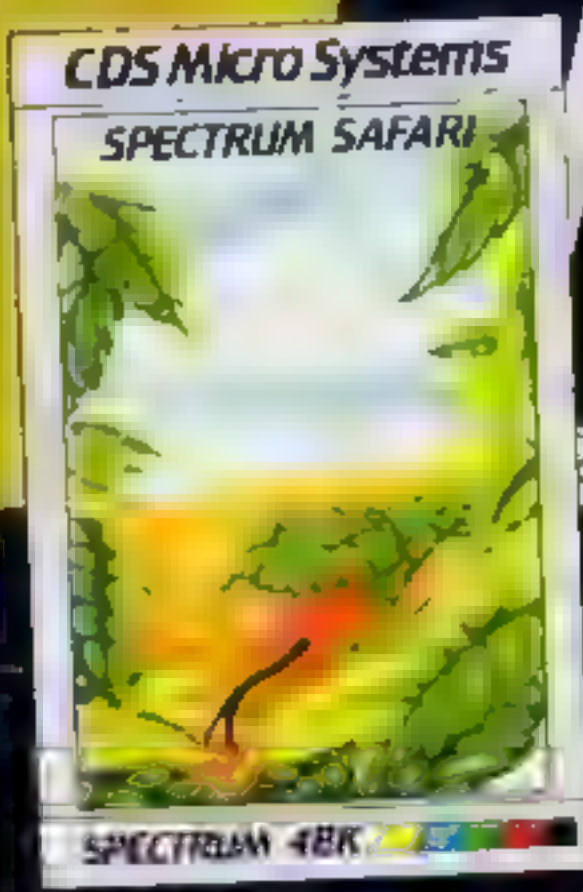
Wanted: High quality software, of all types, for export and UK distribution.

All programs now available on disc please allow £2.50 extra.

DEALER ENQUIRIES WELCOME

CDS programs, the ultimate experience

This is 'Winged Warlords' a brand new Arcade Adventure game from CDS. Just one of a new range of exciting programs for 1984...



new... Spectrum Education

new... Spectrum Arcade action

new... Spectrum Adventure

ONLY £5.95 each at W.H. Smiths, John Menzies, Boots, and other leading Computer Stores, or...

Available direct from CDS Micro Systems
Send Cheque or P.O. To CDS Dept. YCI,
10, Westfield Close, Tickhill, Doncaster
DN11 9LA. Tel: (0302) 744129.



Selected titles only

It's Christmas Eve... and Santa's reindeer have escaped

Just imagine this situation. Santa Claus is just about to set off on Christmas Eve to deliver many thousands of presents to expectant girls and boys throughout the world, when — horror of horrors — he finds someone has left a gate open, and all his reindeer have escaped.

There's thousands of Christmas stockings to fill, but first Santa must round up his reindeer. You can help by typing David Nowotnik's program into your 16K or 48K Spectrum

How it works

- 50-130 define LDG characters
- 500-690 Subroutines: 510-520 PRINT trees, 530-570 check for keypress 600-690 Merry Christmas tune
- 1000-1090 main title
- 1100-1290 instructions
- 1300-1360 initialise main variables
- 1400-1580 set up the screen (pen, trees, reindeer, and Santa Claus)
- 1590 set 'clock' to zero
- 1600-1640 calculation of number of presents
- 1650-1730 move Santa Claus
- 1740-1800 move reindeer
- 1810 has another reindeer arrived in the pen?
- 1820-1870 if yes, increment score and play a tune
- 1890-2050 end of game message

Of course, he can't start without his reindeer to pull his sleigh, and the longer he takes to round them up, the more children he'll disappoint by failing to deliver their presents.

This is the theme of my game for the 16 and 48K Spectrum. You have to guide Santa to help him get his reindeer back into their pen.

The scene is set in the snow covered forest of Greenland (we all know that's where Santa is

based). The reindeer pen will appear on the left hand side of the screen, and trees will be 'scattered' on the remaining part of the screen.



Main variables

- x start position of the LDG area of RAM
- xy, xmx, ymx row and column coordinates of Santa
- y, x row and column coordinates of trees or reindeer
- p number of presents it is possible to deliver
- tr total number of reindeer returned to the pen
- m() array which holds the relative coordinates for Santa's movements
- r() array which holds the relative coordinates for moving reindeer

The escaped reindeer are hidden among the trees, and a distraught Santa Claus will start the game in the empty reindeer pen.

The game instructions are included in the program. Your success is measured by the number of presents Santa has time to deliver. This is shown at the bottom of the screen.

Two tips for playing this game: Don't get the reindeer trapped in trees or at the edge of the screen, otherwise it will be impossible to direct them to the pen. Also, you have 10 reindeer on the screen, and Santa needs only six to pull his sleigh — so go for the most accessible reindeer.

Listen out for the tune played at the beginning and end of the game.

```

10 REM Santa's Dilemma
11 REM David Nowotnik
12 REM (c) 1983
13 REM
14 REM This program is for the Spectrum 16K or 48K
15 REM It is a Christmas game where you help Santa
16 REM round up his reindeer before Christmas Eve
17 REM
18 REM The screen is divided into a 30x20 grid
19 REM Santa starts at (10,10) and moves using
20 REM the arrow keys. The reindeer are scattered
21 REM among the trees. The goal is to get the
22 REM reindeer back into the pen at (0,0)
23 REM
24 REM The number of presents left to deliver is
25 REM shown at the bottom of the screen.
26 REM
27 REM The game ends when all reindeer are in the
28 REM pen or when time runs out.
29 REM
30 REM Merry Christmas!
31 REM
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It seemed like a bad dream. It became a Spritemare

My computer beeped at me in a worrying way. I looked through the last part of my program for bugs, carefully comparing the lines on the TV screen with the notes scribbled in the book at my side. My eyes ached and my head felt as though someone had filled it with damp sand the results of programming past one in the morning. The sound of my father snoring drifted, muffled, through the ceiling.

I glanced at my watch. The display read 2:34 and I felt dreams fighting behind my forehead, trying to take me from the world. Just another 10 minutes and I'll go up to bed. I thought I started to type in the last part of my program.

Outside the house trees and fields stretched away from the house into a pall of black which rose up into the velvet sky where clouds hung like ogres. Christmas Eve was in the process of becoming Christmas Day and ancient forces strained against the luke warm light from the window behind which Richard worked on his program.

The house was old but the foundations on which it had been built stretched far back to men who worshipped the sun. Below those foundations there rests ageing bedrock, the roots of which go deep into the heart of the hills. And that bedrock had been stained in antiquity with the blood of sacrifices.

To the arcane forces which strained in on the house the computer was incomprehensible. Richard was not. People they understood and the tools and machines of people they could bend to their own evil purposes through those people. And so they reached out one cold shadowy hand, wincing as the light washed through it. They caught at Richard's sleepy mind.

My hand felt suddenly cold as I pressed the keys. I really must get off up to bed soon, I thought, and yawned. As I did so, a shiver ran down my spine like a frozen worm. I continued typing though I felt half asleep and as I typed, the screen blurred and letters ran together. As they ran together I felt my hands typing faster and faster, the screen a mass of dancing figures winking and twirling.

Somewhere in the back of my mind I thought in an oddly coherent way: "I am asleep and none of this is happening. How useful it will be to finish typing in the program while I sleep." After that I felt myself falling backward through the chair and down a long, long tunnel of whispering grey mist.

I awoke uncomfortably with my head lolling over the back of the chair. Aches crawled through every muscle as I sat up, my fingers still on the keyboard. I looked at my watch. It now read 3:23. I was about to SAVE the program and then go straight to

**Lock the doors,
close the curtains,
turn on all the
lights, make sure
you're not alone in
the house. Now you
can read Mark Eyles'
Christmas ghost
story. But don't say
you weren't
warned...**

bed when the comments on the screen caught my attention.

666 RFMDARK NIGHT DARK SPRITE.
SACRIFICE: KNIFE SLICE
RUN

The cursor flashed after the RUN, waiting for me to start the program. I had the impression that it was winking at me in a private way, daring me.

I must have been more sleepy than I thought; a cold sweat broke out on the palms of my hands as I imagined creatures of evil creeping into the room through the shadows. I shook myself. "This is silly", I whispered to myself. "I can't possibly be scared of a character generator program. This is 1983 after all, not the Dark Ages."

I looked at the screen again and small hairs at the back of my neck stirred. I decided to SAVE the program, to turn off the computer and go up to get some sleep. My small brother would be awake in another couple of hours, ready to open his presents. The household rarely slept past 6:30 on Christmas Day.

Then my curiosity took hold and, seemingly of its own accord, my hand went to the keyboard to RUN the program. My eyes widened as I pressed the key.

The arcane forces had moved closer to the house and started to materialise into half men - half monster shapes... nightmares from the asylum of night. Their mouths twisted gleefully as Richard reached for the key. Plants around the house began to wilt. A wind blew crystals of crisp snow across the bare ground. Perhaps this Christmas would be white. The night creatures hoped it would be red.

I was dragged up to semi-consciousness from a deep and troubled sleep by the sound of my brother's door opening. A dull throbbing came from my left arm. "I've been sleeping on it", I thought as I drifted back to sleep.

The next instant a scream echoed into my dream. I stirred, but the scream didn't stop. It became more shrill, clawing at the back of my eyelids, which finally opened. I came awake quickly, feeling weak and groggy. My arm ached even more, I moved it. A sharp pain bit to the bone. Air hissed out of my mouth with a small whimpering cry.

I rolled out of bed clenching my teeth against the pain and looked at my arm. Three deep, ragged scratches stretched between my elbow and wrist. The world tilted to an improbable angle and I saw spots of blood, now dried to a crusty brown, scattered about me.

I stood, nearly falling, as a wave of vertigo once again tilted the world, then made my way to the stairs. My father's worried half-asleep face was just appearing at my parents' door. Ignoring him, I ran downstairs, almost falling as I missed a step, towards the sobbing coming from the lounge.

My little brother stood in the doorway, quivering with fear. I came up behind him and looked into the room. At the window stood the table which held the small portable TV and my computer. Embedded in the computer's keyboard was a large carving knife. From the cut in the keyboard a dark red-brown stain spread over the computer, across the table, down the table legs and over the rug below. The dark stain was blood. A hole had been smashed in the window through which some snow had come to settle on the window sill. The snow was pink in places. I then remembered pressing that key three hours earlier.

As I had touched the key a deep foreboding came over me, my skin pricked by small needles of fear. The screen went black and then seemed to disappear altogether, leaving a gaping pit. In the bottom small shapes began to form and claw up toward me. I realised I should not have touched the key. Too late. The light in the room dimmed and blinked out. I stood rigid with terror in absolute blackness.

Before me two eyes climbed up out of a pit a thousand miles deep. The eyes were set in a shadowy figure whose flesh crawled as though trying to escape. A mouth cracked open and laughed displaying the stumps of unpleasant teeth. A fetid smell accompanied a voice. Sounding like the sifting of soil onto a coffin, it whispered:

*"In this Darkest Night
In the Death of Light
I am the Dark Sprite."*

The face came closer and I could not move. I would have been ill... if I could have controlled my body. Then a cold damp claw closed on my arm. The face crept closer and nothing else but myself and it existed. The rest was blackness. I felt I might be trapped inside a buried coffin. Maybe I was dead. I couldn't remember dying.

DRAGON

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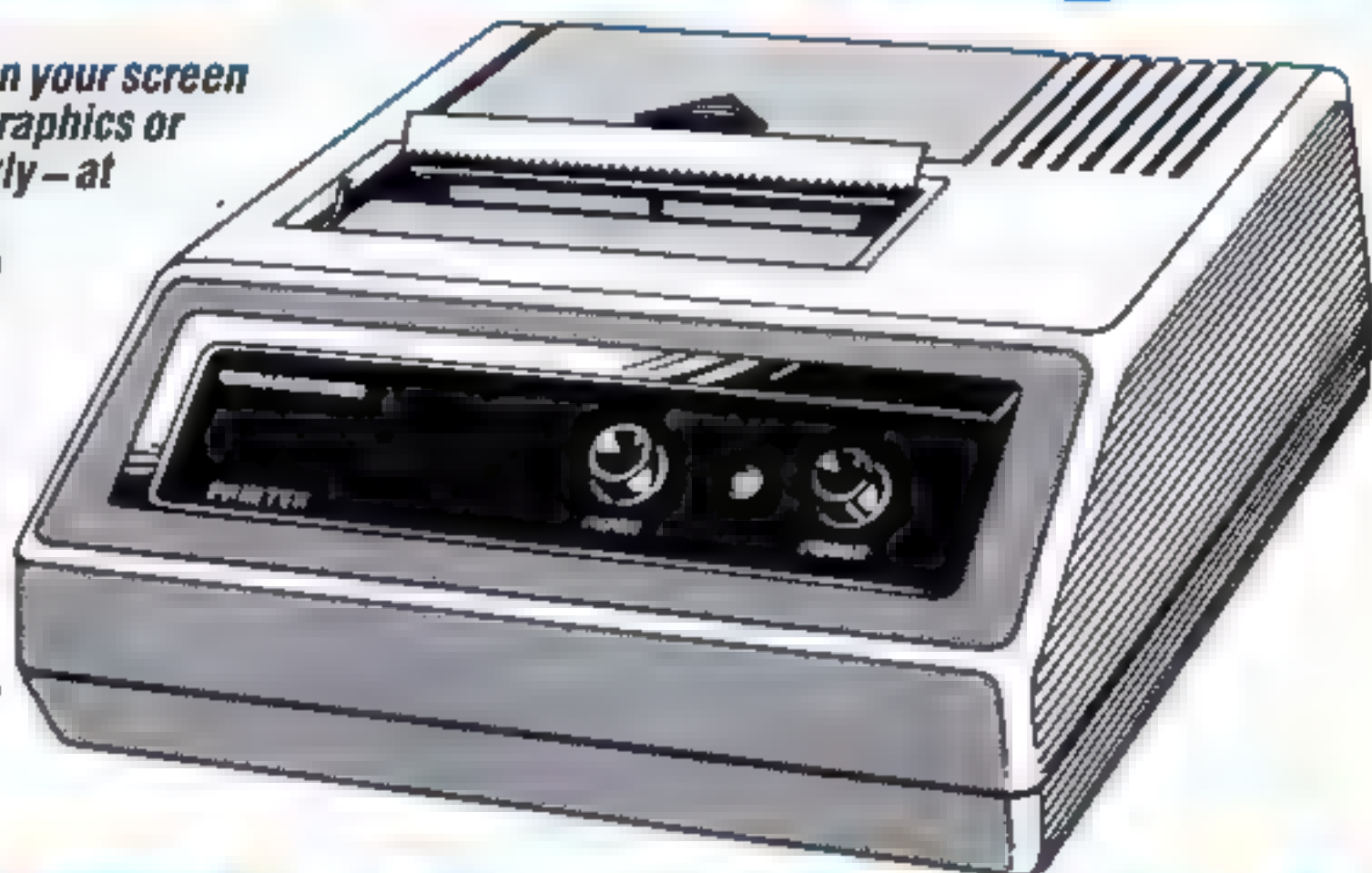
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| 4 | Flight Simulation | Psion (9) |
| 5 | Manic Miner | Bug Byte (7) |
| 6 | Art Attack | Quicksilva (4) |
| 7 | Lunar Jetman | Ultimate (6) |
| 8 | Pool | CDS (-) |
| 9 | Kong | Ocean (5) |
| 10 | Splat | Incentive (8) |

Compiled by W.H.Smith. Figures in brackets are last week's positions

Top Ten programs for the ZX81

| | | |
|----|-----------------|----------------|
| 1 | Defender | Quicksilva (6) |
| 2 | Scramble | Quicksilva (1) |
| 3 | Asteroids | Quicksilva (7) |
| 4 | Chess | Sinclair (5) |
| 5 | Space Raiders | Sinclair (9) |
| 6 | Fantasy Games | Sinclair (8) |
| 7 | Invaders | Quicksilva (-) |
| 8 | Inca Curse | Sinclair (-) |
| 9 | ZX81 Forth | Sinclair (-) |
| 10 | Maths/Geography | Sinclair (-) |

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Top Ten programs for the Dragon

| | | |
|----|--------------------|----------------|
| 1 | Mined Out | Quicksilva (3) |
| 2 | Pettigrews Diary | Shards (10) |
| 3 | Night Flight | Salamander (-) |
| 4 | Ring of Darkness | Wintersoft (1) |
| 5 | Dragonfly II | Hewson (-) |
| 6 | Gridrunner | Salamander (-) |
| 7 | Champions | Peaksoft (5) |
| 8 | Lionheart | Peaksoft (-) |
| 9 | Frogger | Microdeal (6) |
| 10 | Morocco Grand Prix | Microdeal (-) |

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Top Ten programs for the VIC-20

| | | |
|----|-----------------------|---------------------|
| 1 | Arcadia | Imagine (4) |
| 2 | Wizard & the Princess | Melbourne House (1) |
| 3 | Wacky Waiters | Imagine (2) |
| 4 | Laser Zone | Llamasoft (-) |
| 5 | Matrix | Llamasoft (10) |
| 6 | Gridrunner | Llamasoft (-) |
| 7 | Skyhawk | Quicksilva (5) |
| 8 | Sargon II | Commodore (-) |
| 9 | Money Manager | Commodore (-) |
| 10 | Panic | Bug Byte (3) |

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Top 30

| | | | |
|----|--------------------------|---------------|---------------|
| 1 | Atic Atac | Ultimate | Spectrum (-) |
| 2 | Lunar Jetman | Ultimate | Spectrum (7) |
| 3 | Kong | Ocean | Spectrum (6) |
| 4 | Jetpac | Ultimate | Spectrum (2) |
| 5 | Manic Miner | Bug Byte | Spectrum (3) |
| 6 | The Hobbit | M.House | Spectrum (4) |
| 7 | Valhalla | Legend | Spectrum (1) |
| 9 | Chuckie Egg | A&F | Spectrum (17) |
| 10 | 747 Flight Simulator | Doctorsoft | BBC |
| 11 | Pool | CDS | Spectrum (16) |
| 12 | Melbourne Draw | M.House | Spectrum (-) |
| 13 | Falcon Patrol | Virgin | CBM 64 (25) |
| 14 | Ostron | Softtek | Spectrum (-) |
| 15 | Night Flight | Microdeal | Dragon (-) |
| 16 | Killer Gorilla | Program Power | BBC (10) |
| 17 | Trans-Am | Ultimate | Spectrum (8) |
| 18 | Splat | Incentive | Spectrum (-) |
| 19 | Cookie | Ultimate | Spectrum (9) |
| 20 | Horace and the Spiders | Psion | Spectrum (13) |
| 21 | The King | Microdeal | Dragon (18) |
| 22 | Penetrator | M.House | Spectrum (22) |
| 23 | Hall of the Things | Crystal | Spectrum (14) |
| 24 | Cuthbert in the Jungle | Microdeal | Dragon (15) |
| 25 | Snooker | Arctic | Spectrum (-) |
| 26 | Franklins Tomb | Salamander | Dragon (-) |
| 27 | 3D Dimension Destruction | Arctic | Spectrum (-) |
| 28 | Crazy Painter | Microdeal | Dragon (-) |
| 29 | Pssst | Ultimate | Spectrum (20) |
| 30 | 3D Combat Zone | Arctic | Spectrum (23) |

Compiled by PCS Distribution (0254 691211) and sanctioned by the Computer Trade Association. Chart is for retail sales in individual outlets in the UK and Northern Ireland for the fortnight ended December 4

Top Ten programs for the Commodore 64

| | | |
|----|-----------------|------------------|
| 1 | Crazy Kong | Interceptor (8) |
| 2 | Frogger | Interceptor (1) |
| 3 | Laser Zone | Llamasoft (-) |
| 4 | Spriteman | Interceptor (10) |
| 5 | Motorman | Audiogenic (6) |
| 6 | Purple Turtles | Quicksilva (2) |
| 7 | Quintic Warrior | Quicksilva (4) |
| 8 | Aquaplane | Quicksilva (9) |
| 9 | Renaissance | Audiogenic (-) |
| 10 | Caesar the Cat | Mirrorsoft (-) |

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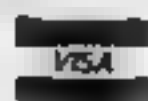
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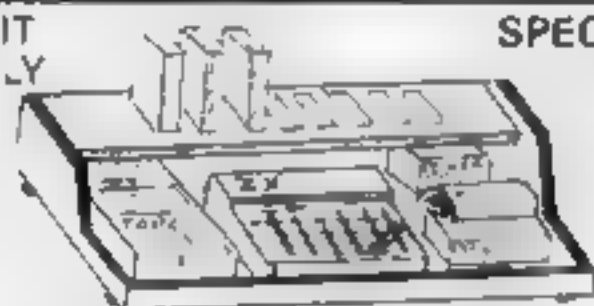
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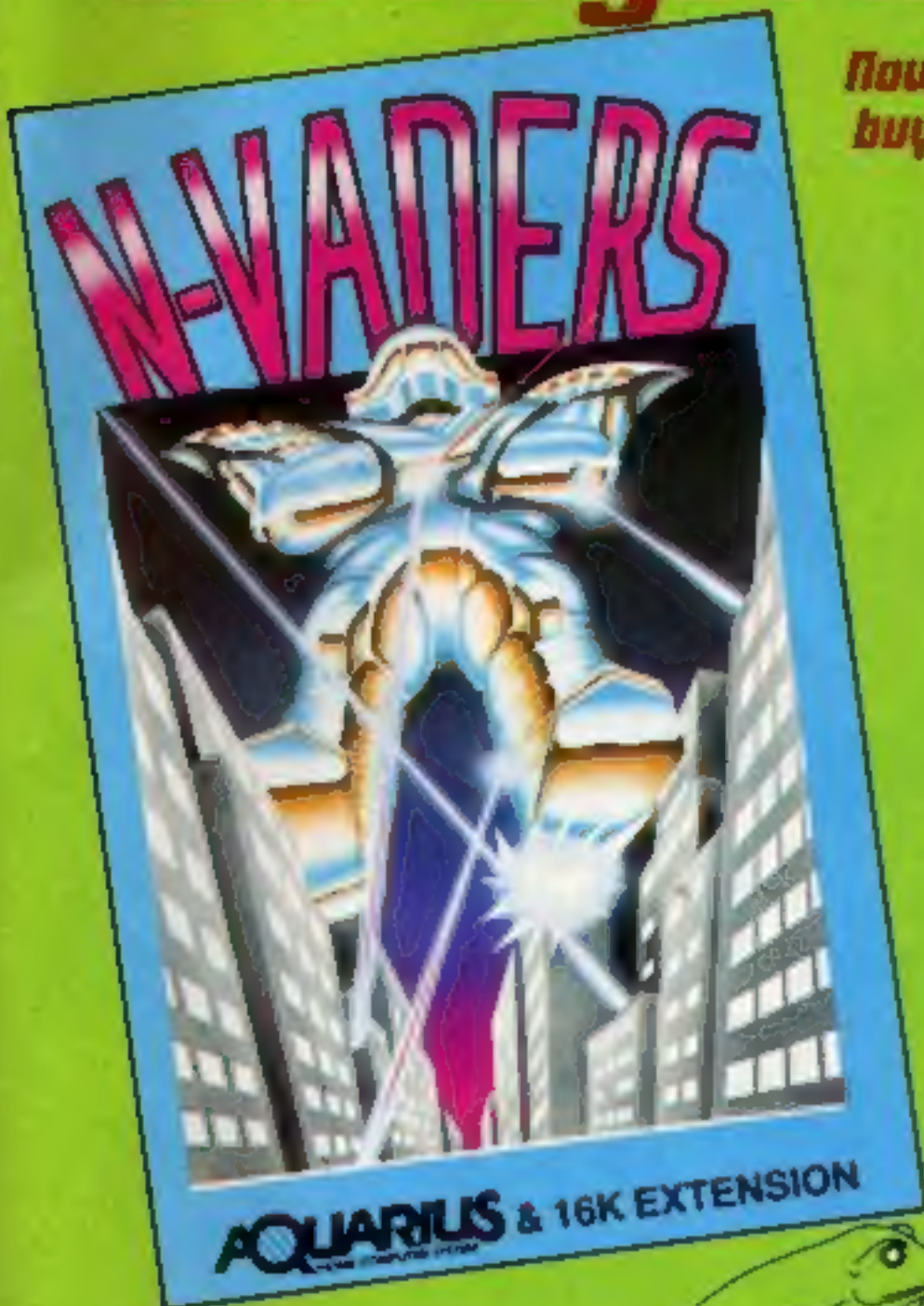
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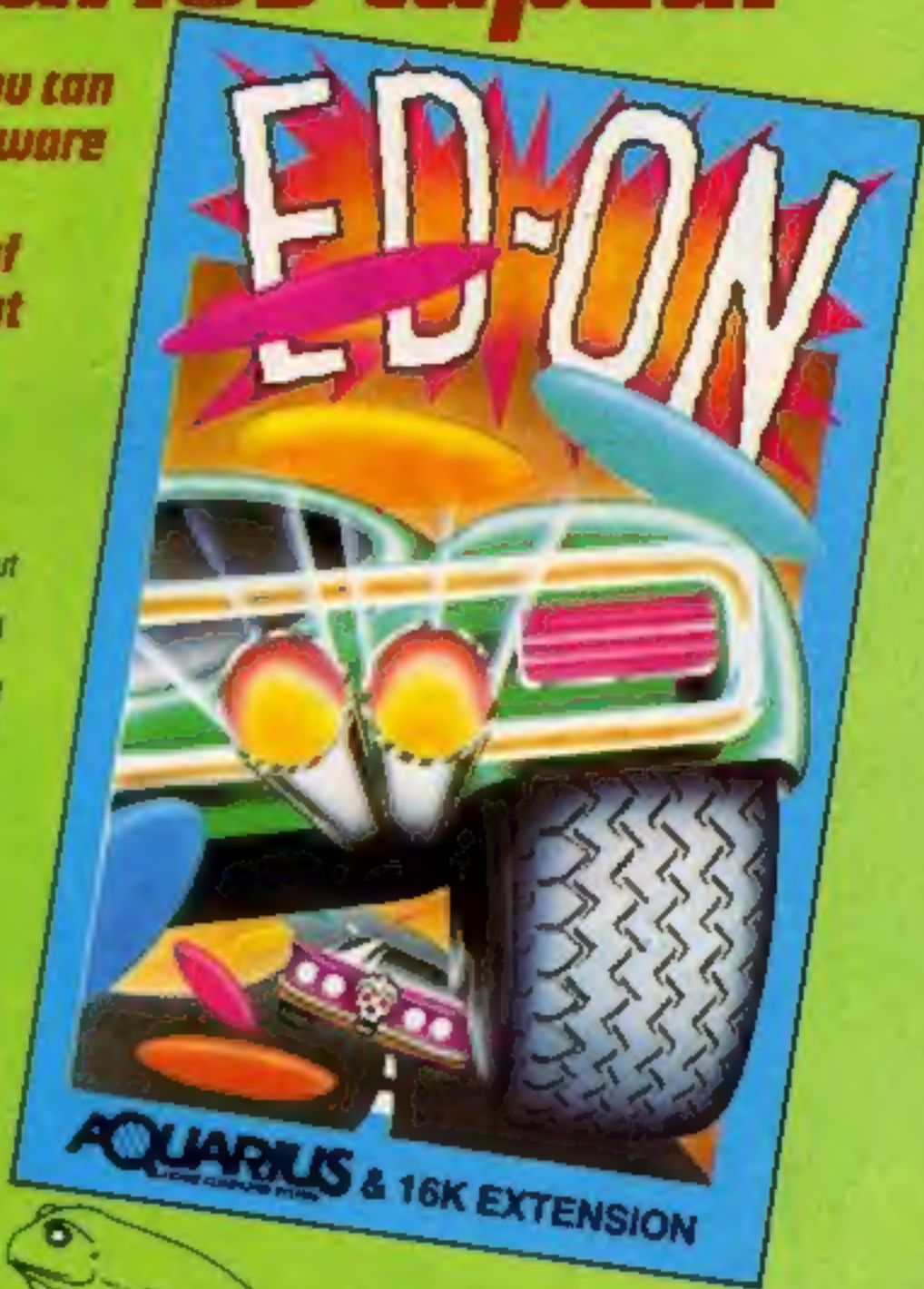
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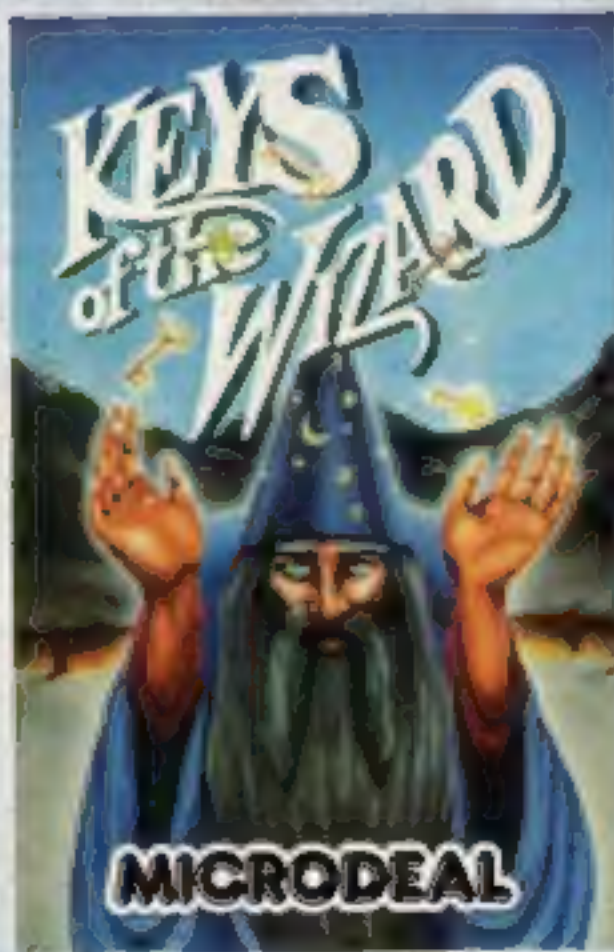
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